

LBT-LX7/LX8

SERVICE MANUAL

AEP Model

UK Model

LBT-LX7

E Model

LBT-LX7/LX8

Australian Model

LBT-LX8

- LBT-LX7 / LX8 is composed following models.
As for the service manual, it is issued for each component model,
then, please refer to it.

COMPONENT MODEL NAME FOR LBT-LX7/LX8

	LBT-LX7	LBT-LX8
COMPACT DISC DECK RECEIVER SYSTEM	HCD-LX7	HCD-LX8
SPEAKER SYSTEM	SS-LX7	SS-LX8

• Abbreviation

CND : Canadian model
EA : Saudi Arabia model
SP : Singapore model

MX : Mexican model
AR : Argentine model
MY : Malaysia model

SPECIFICATIONS

General

Power requirements

European model: 230 V AC, 50 / 60 Hz
Mexican model: 120 V AC, 50 / 60 Hz
Australian models: 230 - 240 V AC, 50 / 60 Hz
Other models: 120 V, 220V, or 230 - 240 V AC,
50 / 60 Hz
Adjustable with voltage selector

Power consumption

(LBT-LX7) 220 watts
(LBT-LX8) 300 watts

Supplied accessories

AM loop antenna (1)
Remote RM-SR5B (1)
R6 (size AA) batteries (2)
FM wire antenna (1)
Speaker cords (2)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****		
1-475-572-41	COMMANDER, STANDARD (RM-SR5B)	
1-501-374-11	ANTENNA, LOOP	
1-501-659-41	ANTENNA (FM) (LBT-LX8)	
1-501-804-11	ANTENNA (FM) (LBT-LX7)	
1-775-512-21	CORD, SPEAKER	
4-227-074-11	MANUAL, INSTRUCTION (ENGLISH)	
4-227-074-21	MANUAL, INSTRUCTION (FRENCH) (EA)	
4-227-074-31	MANUAL, INSTRUCTION (SPANISH) (AR, MX)	
4-227-074-41	MANUAL, INSTRUCTION (FRENCH, SPANISH) (AEP)	
4-227-074-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (AEP)	
4-227-074-61	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (AEP)	
4-227-074-71	MANUAL, INSTRUCTION (POLISH, RUSSIAN) (CIS)	
4-227-074-81	MANUAL, INSTRUCTION (ARABIC) (EA)	
4-227-074-91	MANUAL, INSTRUCTION (CHINESE)(SP, MY)	
4-227-075-11	MANUAL, INSTRUCTION (CZECH) (CIS)	
4-227-075-21	MANUAL, INSTRUCTION (HUNGARIAN) (CIS)	
4-227-075-31	MANUAL, INSTRUCTION (GREEK) (CIS)	
4-227-075-41	MANUAL, INSTRUCTION (TURKISH) (CIS)	
4-228-574-11	MANUAL, INSTRUCTION(ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, POLISH, RUSSIAN, DANISH, FINNISH, HUNGARIAN, CZECH, GREEK, TURKISH)(SS-LX7)	
4-210-254-01	CUSHION (FOOT)	
4-991-151-31	COVER, BATTERY (FOR RM-SR5B)	

COMPACT Hi-Fi STEREO SYSTEM

SONY®

HCD-LX7/LX8

SERVICE MANUAL



HCD-LX7/LX8 is the tuner, deck, CD and amplifier section in LBT-LX7/LX8.

Photo: HCD-LX8

AEP Model

UK Model


HCD-LX7

E Model

Australian Model

HCD-LX8

This stereo system is equipped with the Dolby* B-type noise reduction system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of the Dolby Laboratories Licensing Corporation.

CD SECTION	Model Name Using Similar Mechanism	HCD-DR4/XB500
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Type	BU-5BD32L
	Optical Pick-up Type	KSS-213D/Q-NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	HCD-GRX10AV/RX110AV
	Tape Transport Mechanism Type	TCM-230PWR1

SPECIFICATIONS

Amplifier section

(HCD-LX8)

The following measured at AC 120/220/240 V, 50 Hz

DIN power output (Rated)

240 + 240 watts
(4 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

300 + 300 watts
(4 ohms at 1 kHz, 10 % THD)

(HCD-LX7)

DIN power output (Rated)

200 + 200 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

250 + 250 watts
(6 ohms at 1 kHz, 10 % THD)

Music power output (Reference)

430 + 430 watts
(6 ohms at 1 kHz, 10 % THD)

Inputs

DJ MIX IN *(phono jacks): sensitivity 250 mV, impedance 47 kilohms

GUITAR IN (phone jack): sensitivity 75 mV, impedance 470 kilohms

PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms

MIX MIC (phono jack): sensitivity 1 mV, impedance 10 kilohms

VIDEO 1 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms

VIDEO 2 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms

MD IN (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs

DJ MIX OUT *(phono jacks): sensitivity 250 mV, impedance 1 kilohms

PHONES (stereo phone jack): accepts headphones of 8 ohms or more

VIDEO OUT (phono jack): voltage 250 mV, impedance 1 kilohm

MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohm

FRONT SPEAKER :

(HCD-LX8) accepts impedance of 4 to 16 ohms

(HCD-LX7) accepts impedance of 6 to 16 ohms

* European, and Mexican models only.

CD player section

System

Compact disc and digital audio system

Laser

Semiconductor laser ($\lambda = 780$ nm), Emission duration : continuous

Laser output

Max. 44.6 μ W*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Wavelength

780 - 790 nm

Frequency Response

2 Hz - 20 kHz (± 0.5 dB)

Signal-to-noise ratio

More than 90 dB

Dynamic range

More than 90 dB

CD DIGITAL OUT

(square optical connector jack, rear panel)

Wave length:

600 nm

Output level:

-18 dBm

Tape player section

Recording system

4-track 2-channel stereo

Frequency Response (DOLBY NR OFF)

40 - 13,000 Hz (± 3 dB),

using a Sony TYPE I

cassette

40 - 14,000 Hz (± 3 dB),

using a Sony TYPE II

cassette

— Continued on next page —

COMPACT HiFi STEREO SYSTEM

SONY®

Tuner section

FM Stereo, FM/ AM superheterodyne tuner

FM tuner section

Tuning range	87.5 - 108.0 MHz (50kHz step)
Antenna:	FM Wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Pan-American models:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,710 kHz (with the tuning interval set at 9 kHz)
European and Middle Eastern models:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	531 - 1,602 kHz (with the tuning interval set at 9 kHz) 530 - 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power Requirements	
European models:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Australian model:	230 - 240 V AC, 50/60 Hz
Other models:	120 V, 220 V, or 230 - 240 V AC, 50/60 Hz Adjustable with voltage selector
Power Consumption	
European models: (HCD-LX7)	220 watts
Other models: (HCD-LX8)	300 watts
Dimensions(w/h/d)	Approx. 356 x 423 x 446 incl. projecting parts and controls
Mass	
(HCD-LX7)	Approx. 15.6 kg
(HCD-LX8)	Approx. 15.7 kg
Supplied Accessories	AM loop antenna (1) FM wire antenna (1) Speaker cords (2) Remote (1) R6(size AA) batteries (2)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

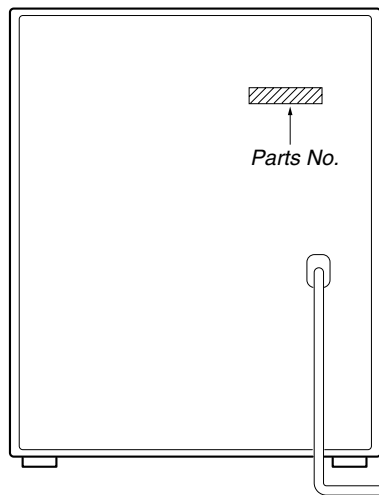
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT, NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NAKYMÄTTÖMÄLLE LASERSÄTELYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD, BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES, UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

This caution label is located inside the unit.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION — BACK PANEL —



MODEL	PARTS No.
LX7: AEP, UK, CIS model	4-225-529-1□
LX8: E, AR model	4-225-529-2□
LX8: SP, MY model	4-225-529-3□
LX8: MX model	4-225-529-4□
LX8: AUS model	4-225-529-5□
LX8: EA model	4-225-529-6□

- Abbreviation
 - SP : Singapore model
 - MX : Mexican model
 - AUS : Australian model
 - EA : Saudi Arabia model
 - AR : Argentine model
 - MY : Malaysia model

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output four times.

TABLE OF CONTENTS

1. SERVICING NOTE	5	7. EXPLODED VIEWS	
2. GENERAL	9	7-1. Case and Back Panel Section	53
3. DISASSEMBLY		7-2. Front Panel Section 1	54
3-1. Front Panel	11	7-3. Front Panel Section 2	55
3-2. Main Board	11	7-4. Chassis Section	56
3-3. Sub Panel	12	7-5. TC Mechanism Section 1 (TCM230PWR1)	57
3-4. CD LID Assembly	12	7-6. TC Mechanism Section 2 (TCM230PWR1)	58
3-5. Tape Mechanism Deck and Cassette LID	12	7-7. CD Mechanism Section (CDM37M-5BD32L)	59
3-6. CD Mechanism Deck	13	7-8. Base Unit Section (BU-5BD32L)	60
3-7. Base Unit	13	8. ELECTRICAL PARTS LIST	61
3-8. Disc Table	13		
4. MECHANICAL ADJUSTMENTS	14		
5. ELECTRICAL ADJUSTMENTS	14		
6. DIAGRAMS			
6-1. Circuit Boards Location	17		
6-2. Block Diagrams			
• BD (CD) Section	18		
• Deck Section	19		
• Main (1/2) Section	20		
• Main (2/2) Section	21		
• Power Section (LX8 model)	22		
• Power Section (LX7 model)	23		
• Display Section	24		
6-3. Printed Wiring Board – BD (CD) Section –	26		
6-4. Schematic Diagram – BD (CD) Section –	27		
6-5. Printed Wiring Board – Main Section –	28		
6-6. Schematic Diagram – Main (1/3) Section –	29		
6-7. Schematic Diagram – Main (2/3) Section –	30		
6-8. Schematic Diagram – Main (3/3) Section –	31		
6-9. Schematic Diagram – Deck Section –	32		
6-10. Printed Wiring Board – Deck Section –	33		
6-11. Schematic Diagram – Power Section –	34		
6-12. Printed Wiring Board – Power Section –	35		
6-13. Schematic Diagram – Panel FL Section –	36		
6-14. Printed Wiring Board – Panel FL Section –	37		
6-15. Schematic Diagram – Panel VR Section –	38		
6-16. Printed Wiring Board – Panel VR Section –	39		
6-17. Schematic Diagram – TC Panel Section –	40		
6-18. Printed Wiring Board – TC Panel Section –	41		
6-19. Schematic Diagram – CD Panel Section –	42		
6-20. Printed Wiring Board – CD Panel Section –	43		
6-21. Schematic Diagram – CD Motor Section –	44		
6-22. Printed Wiring Board – CD Motor Section –	45		
6-23. Schematic Diagram – Trans Section – (LX7 model)	46		
6-24. Printed Wiring Board – Trans Section – (LX7 model)	47		
6-25. Schematic Diagram – Trans Section – (LX8 model)	48		
6-26. Printed Wiring Board – Trans Section – (LX8 model)	49		
6-27. Schematic Diagram – Leaf SW Section –	49		
6-28. Printed Wiring Board – Leaf SW Section –	49		
6-29. IC Block Diagrams	50		
6-30. IC Pin Functions	50		

SECTION 1

SERVICING NOTE

About CD-TEXT display

This unit is provided with a simple CD-TEXT display function.

The CD-TEXT contents of 20 tracks are displayed on the fluorescent display tube.

Since the function is simple, some special characters may not be displayed, or may be displayed as other characters.

MC Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [CLOCK SET], [ENTER], and [I/ON] simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

CD Delivery Mode

- This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/ON] button to turn the set ON.
2. Press [LOOP] button and [I/ON] button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [CLOCK SET], [ENTER], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

Sled Servo Mode

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press [I/ON] button to turn the set ON.
2. Press three buttons [CLOCK SET], [ENTER], and [DISC 5] simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the [◀ AMS ▶] knob is rotated in the clockwise direction, the pick-up moves outside. When rotated counterclockwise, it moves inside.
5. To exit from this mode, perform as follows:
 - 1) Move the pick-up to the most inside track.
 - 2) Execute MC cold reset. (Press the three buttons [CLOCK SET], [ENTER], and [I/ON] button simultaneously.)

Note:

- Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of AM Tuner Step between 9kHz and 10kHz

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [I/ON] button to turn the set ON.
2. Select the function "TUNER", and press [TUNER/BAND] button to select the BAND "AM".
3. Press [I/ON] button to turn the set OFF.
4. Press [ENTER] and [I/ON] buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode

Procedure:

1. Press three buttons [CLOCK SET], [ENTER], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K @ V0 J0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" Value increases like 1, 2, 3 ... if rotating [◀ AMS ▶] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
"V" Value increases like 1, 2, 3 ... if rotating [VOLUME] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

AMS Test Mode

- This mode is used for checking the AMS operations of the tape deck.

JIG

7-819-039-12 Alignment tape, AMS-110A

Procedure:

1. Press the **I/⏻** button to turn the set ON.
2. Set the tape (AMS-110A).
3. Press the three buttons **⌚/CLOCK SET**, **ENTER**, and **DISC 3** button simultaneously.
4. "TEST MODE" is displayed on the fluorescent display tube.
5. Press the **FUNCTION** button and switch the function to the deck with the tape (AMS-110A).
6. Press the **CD SYNC** button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewound.
7. AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
"NG" is displayed at other times, and the deck stops.
8. AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
"NG" is displayed at other times.

Aging Mode

During the aging mode, both the CD player and tape deck are executed together.

• If an error occurs:

Aging stops, and the error state is displayed on the fluorescent display tube.

• If no error occurs:

Aging is repeated.

Procedure:

1. Press the **I/⏻** button to turn the set ON.
2. Load 10 minute tapes with unbent rec-proof tabs in decks A and B.
3. Set CDs on the DISC 1 and DISC 4 tables.
4. Set the CD mode REPEAT to OFF and PLAY MODE to ALL DISCS.
(Press the **PLAY MODE** and **REPEAT** buttons to set these modes.)
5. Press the **FUNCTION** button to switch the function to "CD".
6. Press the three buttons **⌚/CLOCK SET**, **ENTER**, and **DISC 4** button simultaneously.
7. Aging starts.
8. To end aging, press the **I/⏻** button to turn the set OFF.

Aging Sequence:

Aging is performed in the following sequence.

• Tape Deck

1. The tape in deck A is rewound. "TAPE A AG-1" is displayed.
2. The FWD side of deck A is played for two minutes.
"TAPE A AG-2" is displayed.
3. The tape in deck A is fast forwarded. "TAPE A AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
4. The RVS side of deck A is played for two minutes.
"TAPE A AG-4" is displayed.
5. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
6. The FWD side of deck B is played for two minutes.
"TAPE B AG-2" is displayed.
7. The tape in deck B is fast forwarded. "TAPE B AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
8. The RVS side of deck B is played for two minutes.
"TAPE B AG-4" is displayed.
9. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
10. Repeated from step 2.

- **CD**

1. The tray rotates.
2. DISC 1 is chucked.
3. The TOC is read.
4. The first track is played for 2 seconds.
5. The last track is played for 2 seconds.
6. The tray rotates.
7. DISC 4 is chucked.
8. The TOC is read.
9. The first track is played for 2 seconds.
10. The last track is played for 2 seconds.
11. Repeated from step 1.

- Display when ended abnormally

When the tape deck is abnormal:

The state when ended abnormally is displayed.
The contents of display are the same as that during aging.












When the CD player is abnormal:

A message indicating that errors such as “CD MEC ERR” have occurred.
Check the error contents in the following error history display mode.

Error History Display Mode

Mode which enables the history of error occurring in the CD player to be checked.
Execute this mode after ending the aging mode.

Procedure:

1. Press the  button to turn the set ON.
 2. Press the three buttons , , and  simultaneously.
 3. A message such as “EMC@@EDC**” is displayed.
@@ : Number of mechanical errors (Up to three past errors)
** : Number of errors (NO DISC ERROR) which occurs after chucking (Up to three past errors)
 4. When checking the history of mechanical errors, press the  button. When checking errors after chucking, press the  button to switch the display.
 5. Press the  button to end and turn the set OFF.
 6. To erase the error history, perform COLD reset.
(Press the three buttons , , and  simultaneously.)
- Viewing the mechanical error history display
(Switch the history by pressing the  button.)

Display

E@@M#*****

@@ : Error number. 00 is the newest.

: Operating state of table

0 : Currently in the INITIAL mode

7 : Currently rotating to the right

8 : Currently rotating to the left

A : Currently chucking down

B : Currently chucking up

* : Invalid

- Viewing the NO DISC ERROR history display
(Switch the history by pressing the **REPEAT** button.)

Display

E@@D##\$\$%*

@@ : Error number. 00 is the newest

: Error contents
01: Focus error
02: GFS error
03: Setup error

\$\$: Retries
00: NO DISC is determined without attempting chucking retry
02: NO DISC is determined after chucking retry.

% : State when determined as NO DISC
1 : When stopped
2 : At setup
3 : At TOC READ
4 : When accessing
5 : When playing
6 : When pausing
7 : When manual searching (during play)
8 : When manual searching (during pausing)
* : Invalid

SECTION 2 GENERAL

Front Panel

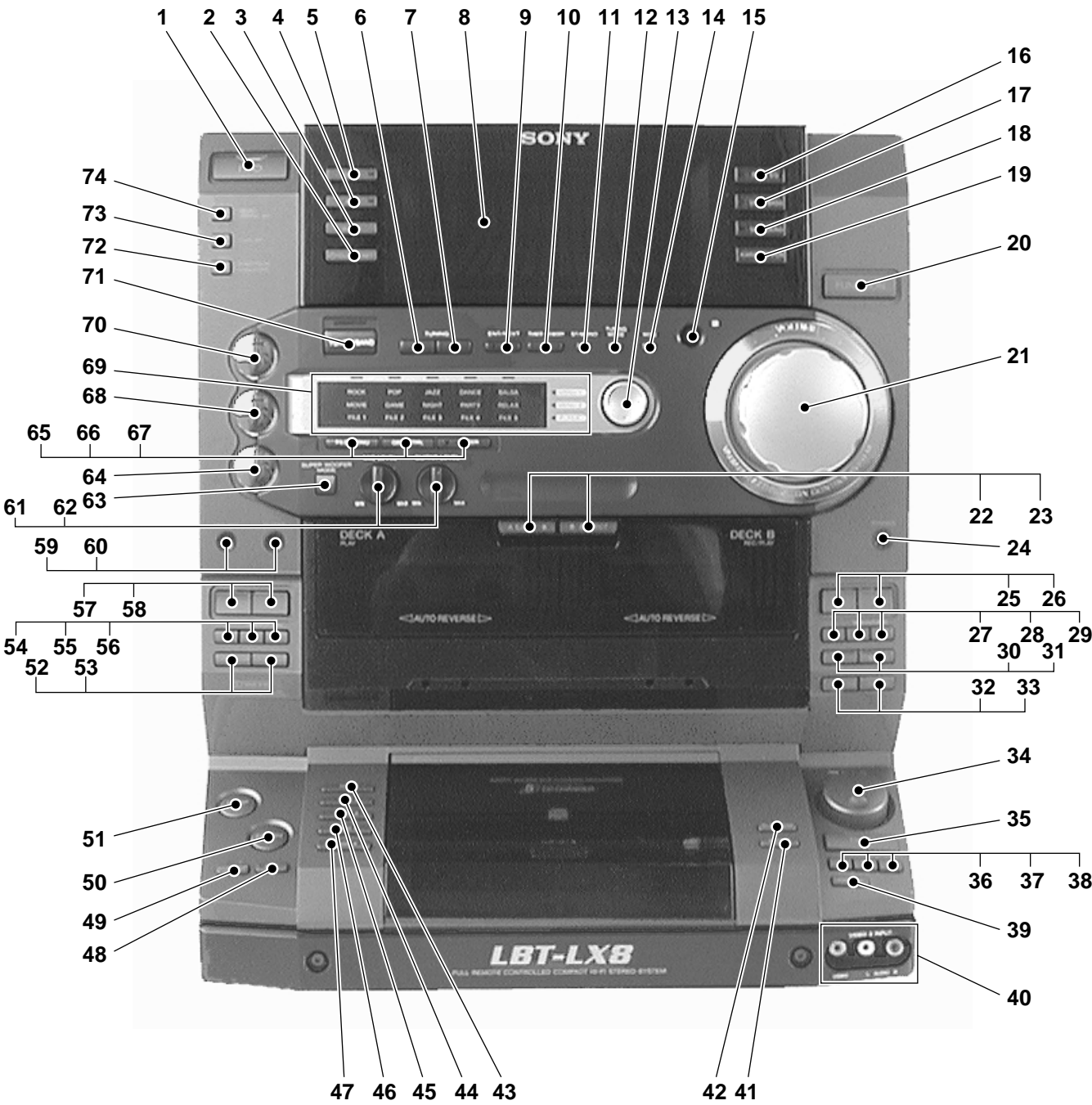


Photo : HCD-LX8

LOCATION OF PARTS AND CONTROLS

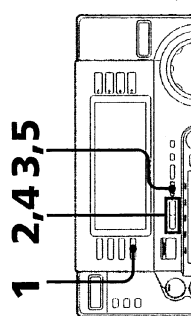
- | | | |
|------------------------------------|--|--------------------------------------|
| 1 I/⏻ (Power) button and indicator | 26 ▷ (B Deck) button and indicator | 51 LOOP button |
| 2 ⌚/CLOCK SET button | 27 ■ (B Deck) button | 52 DIRECTION button |
| 3 SLEEP button | 28 ◀ (B Deck) button | 53 DOLBY NR button |
| 4 REC button and indicator | 29 ▶▶ (B Deck) button | 54 ■ (A Deck) button |
| 5 DAILY button and indicator | 30 (B Deck) button and indicator | 55 ◀◀ (A Deck) button |
| 6 TUNING - button | 31 ● REC (B Deck) button and indicator | 56 ▶▶ (A Deck) button |
| 7 TUNING + button | 32 HI-SPEED DUB button | 57 ◁ (A Deck) button |
| 8 Display window | 33 CD SYNC button | 58 ▷ (A Deck) button |
| 9 ENTER/NEXT button and indicator | 34 ◀◀ AMS ▶▶ knob | 59 MIX MIC jack |
| 10 TUNER MEMORY button | 35 ▷ (CD) button and indicator | 60 GUITAR jack |
| 11 STEREO/MONO button | 36 ■ (CD) button | 61 MIC LEVEL knob |
| 12 TUNING MODE button | 37 ◀ (CD) button | 62 GUITAR LEVEL knob |
| 13 GEQ control button | 38 ▶▶ (CD) button | 63 SUPER WOOFER MODE button |
| 14 PTY button (LX7 model only) | 39 DISK SKIP button | 64 SUPER WOOFER button and indicator |
| 15 Remote sensor | 40 VIDEO2 INPUT jacks | 65 FILE MENU button |
| 16 SYNC EQ button | 41 REPEAT button | 66 GEQ CTRL button |
| 17 SYNC BASS button | 42 PLAY MODE button | 67 ENTER button and indicator |
| 18 SURROUND button and indicator | 43 DISC 1 button | 68 GROOVE button and indicator |
| 19 KARAOKE PON button | 44 DISC 2 button | 69 Equalizer indicators |
| 20 FUNCTION button | 45 DISC 3 button | 70 EFFECT button and indicator |
| 21 VOLUME knob | 46 DISC 4 button | 71 TUNER/BAND button |
| 22 ▲ (A Deck) button | 47 DISC 5 button | 72 SPECTRUM ANALYZER button |
| 23 ■ (B Deck) button | 48 EDIT button | 73 DISPLAY button |
| 24 PHONES jack | 49 NON-STOP button and indicator | 74 DEMO (STANDBY) button |
| 25 ◁ (B Deck) button and indicator | 50 FLASH button | |

- AMS is the abbreviation for Automatic Music Sensor.

Step 3: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for European models, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.



- 1** Press ⌚/CLOCK SET.
The hour indication flashes.



- 2** Press TUNING + / - to set the hour.



- 3** Press ENTER/NEXT.
The minute indication flashes.



- 4** Press TUNING + / - to set the minute.



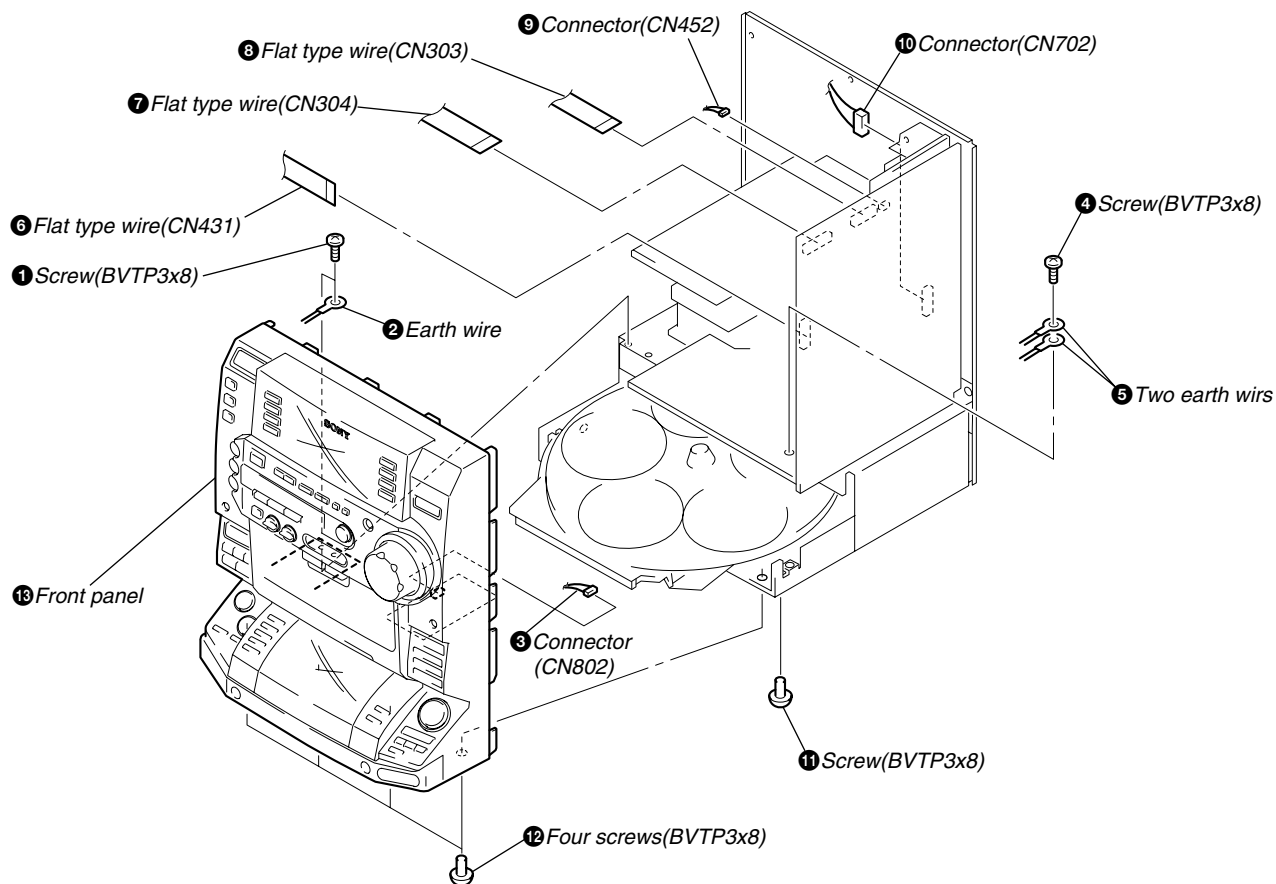
- 5** Press ENTER/NEXT.
The clock starts.

continued

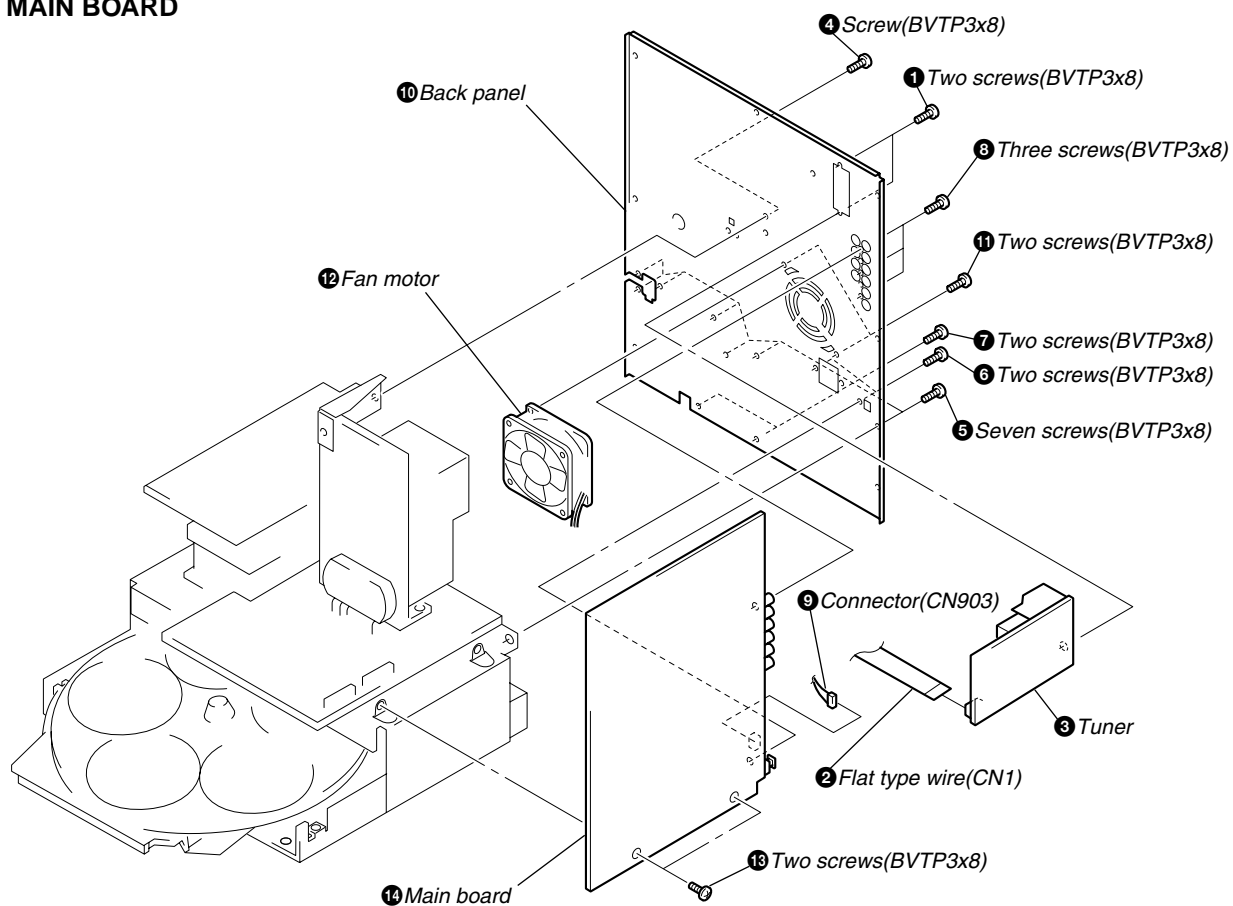
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

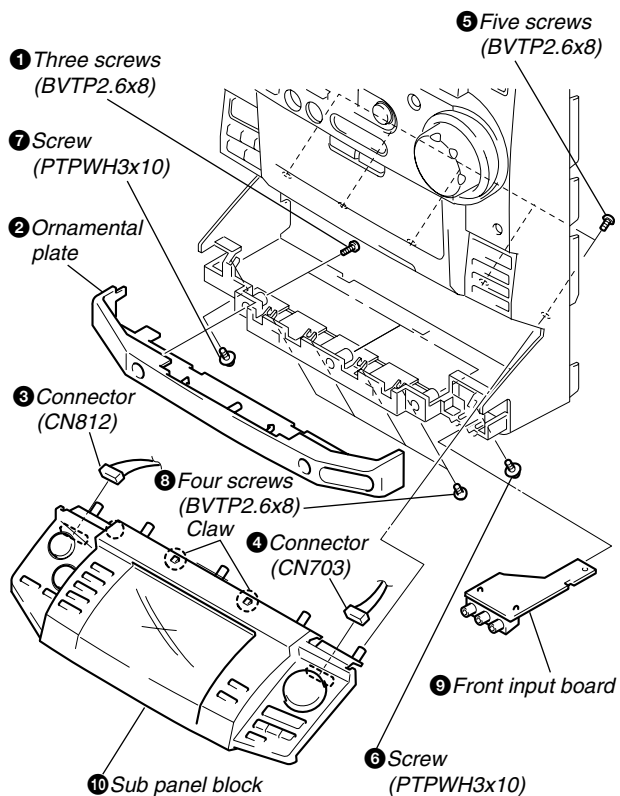
3-1. FRONT PANEL



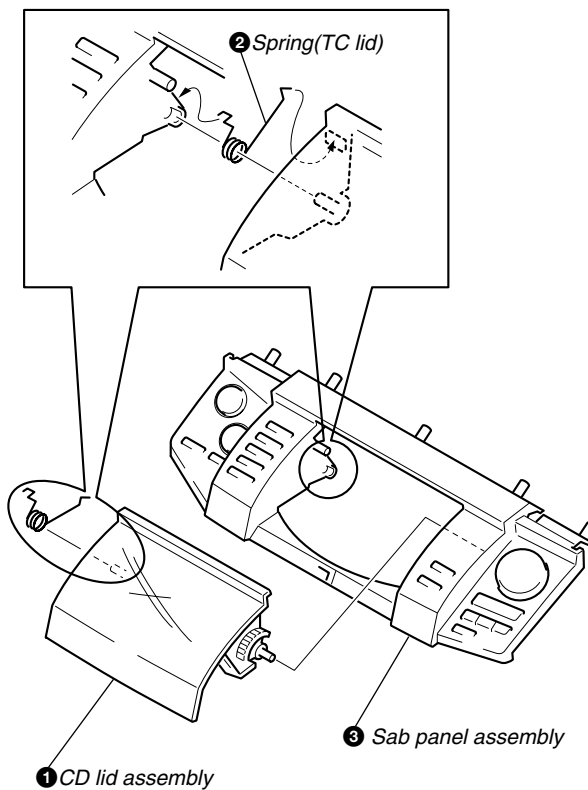
3-2. MAIN BOARD



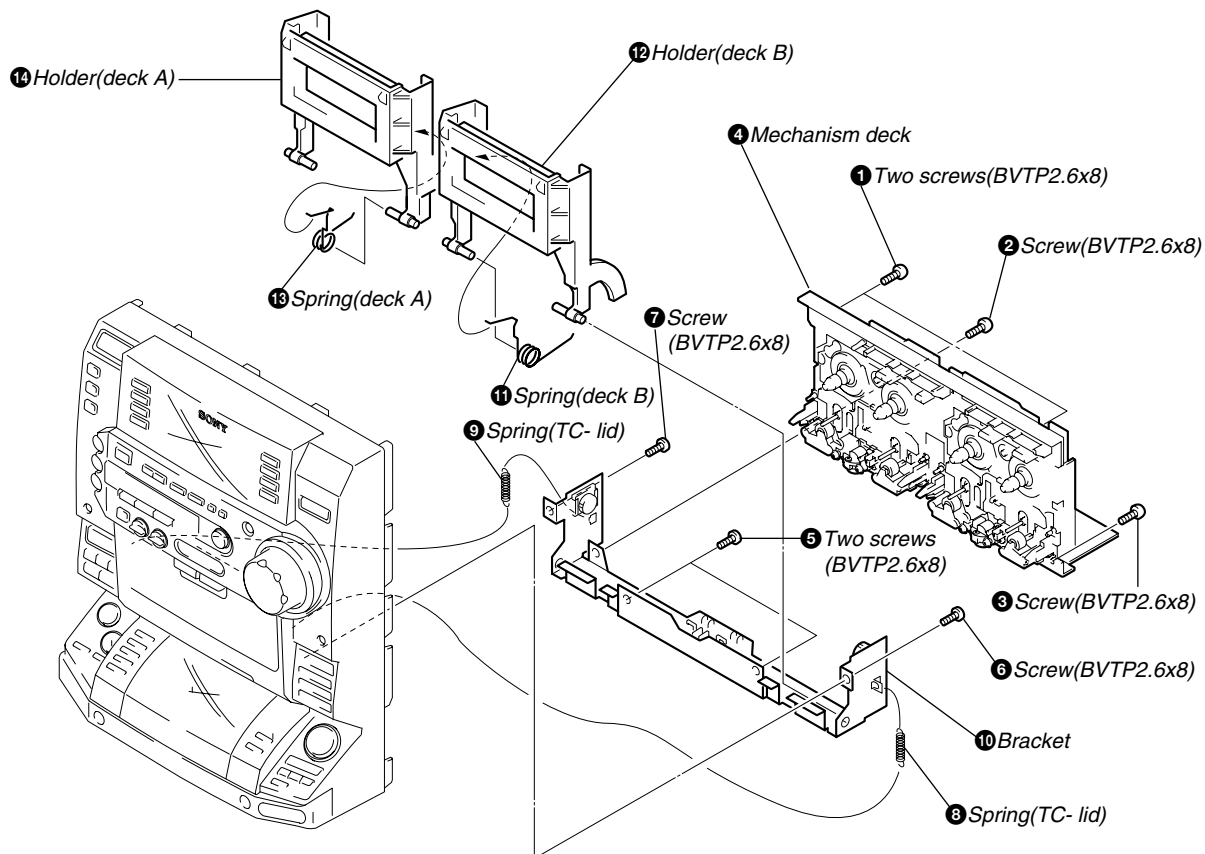
3-3. SUB PANEL



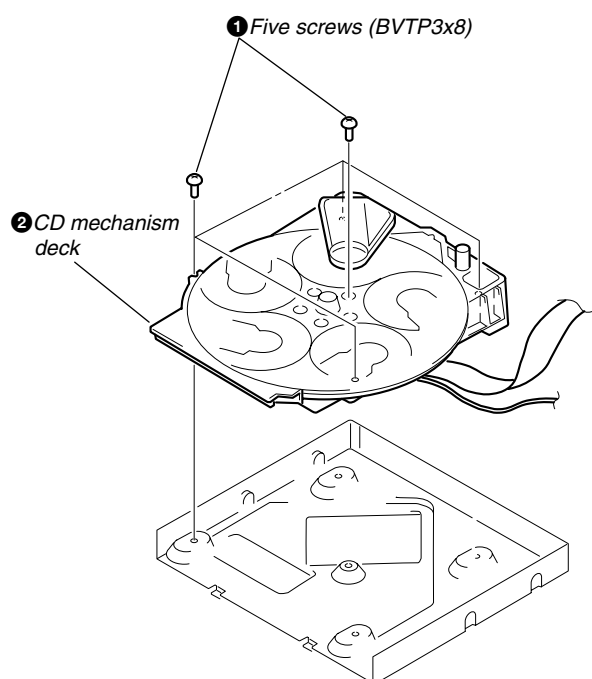
3-4. CD LID ASSEMBLY



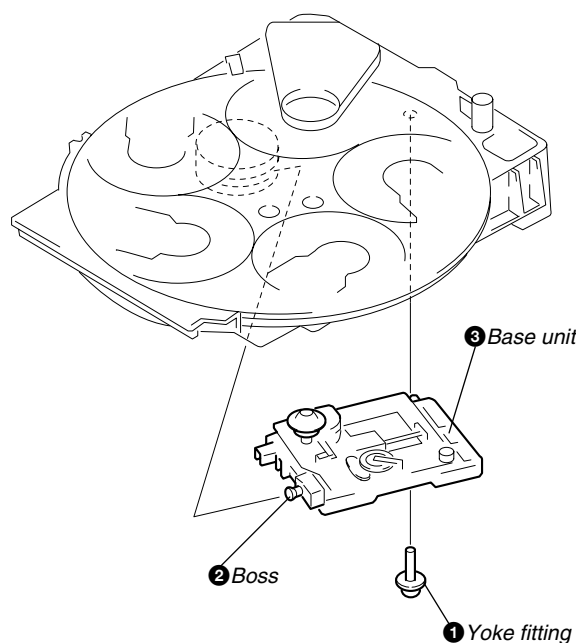
3-5. TAPE MECHANISM DECK AND CASSETTE LID



3-6. CD MECHANISM DECK



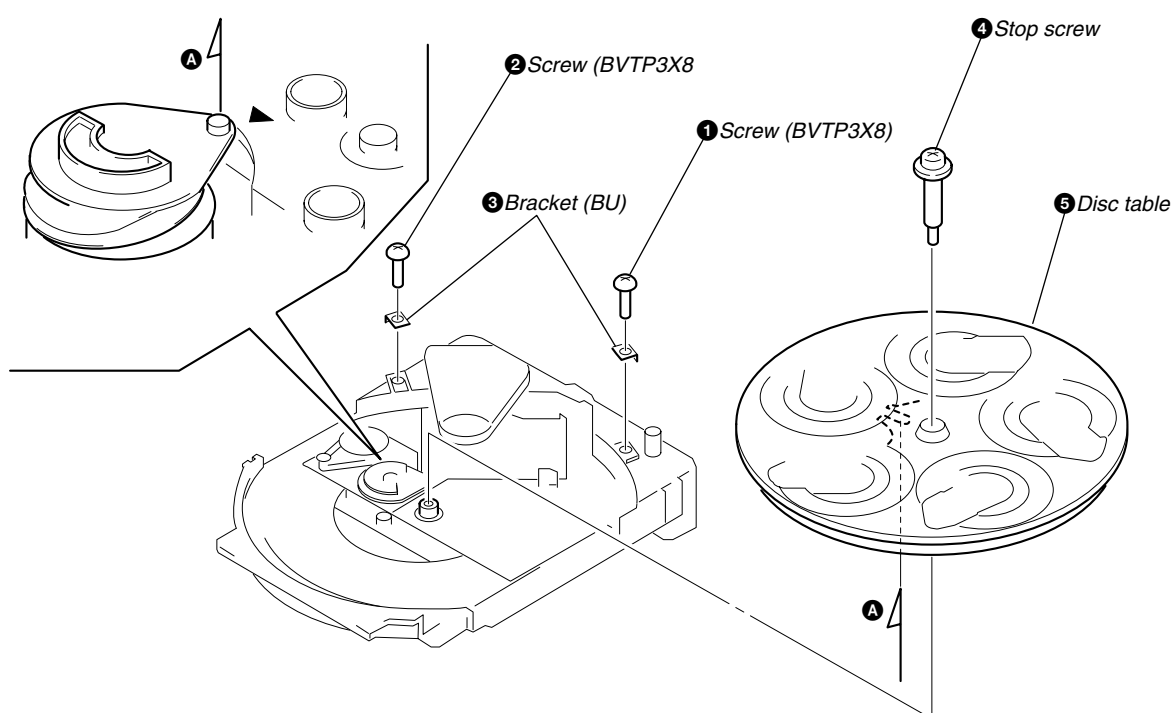
3-7. BASE UNIT



3-8. DISC TABLE

Note:

When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.



SECTION 4 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.04 – 6.96 N • m (31 to 71 g • cm) (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.20 – 0.58 N • m (2 to 6 g • cm) (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.04 – 6.96 N • m (31 to 71 g • cm) (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.20 – 0.58 N • m (2 to 6 g • cm) (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.97 – 14.02 N • m (71 to 143 g • cm) (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	0.98 N • m or more (100 g or more) (3.53 oz or more)
REV tension	CQ-403R	0.98 N • m or more (100 g or more) (3.53 oz or more)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

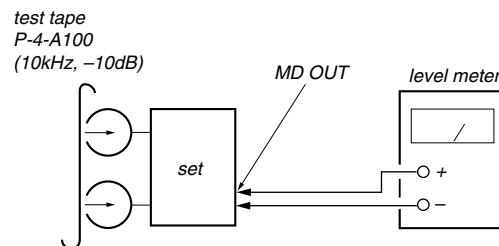
Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

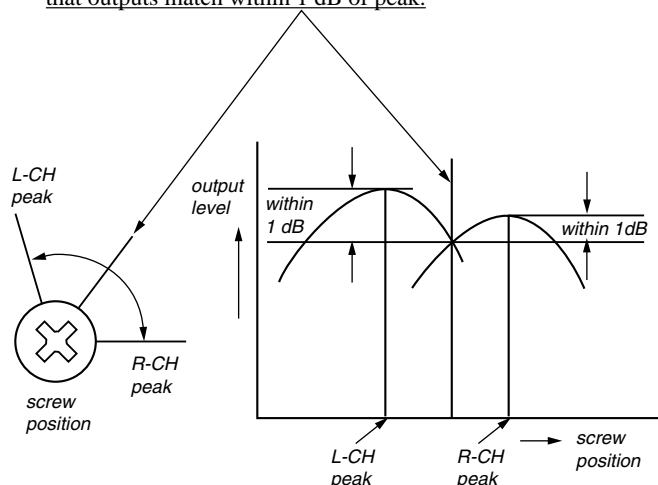
Note: Perform this adjustments for both decks.

Procedure:

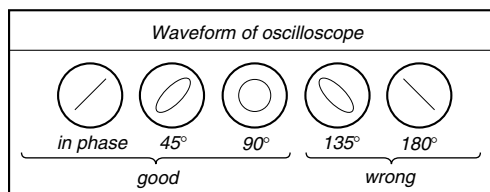
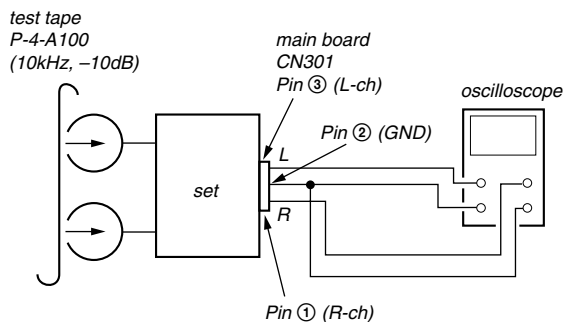
1. Mode : Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



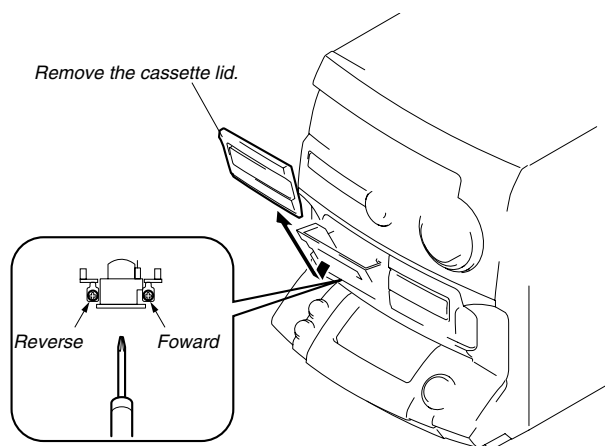
3. Mode: Playback



4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)

Record/Playback/Erase Head (Deck B)



Tape Speed Adjustment (Deck A)

Note: Set the test mode using the following method and begin tape speed adjustment.

In the test mode, the speed will switch to double speed or normal speed each time the **[HI-SPEED DUB]** button is pressed.

Procedure:

With the power turned ON, press the **[CLOCK SET]** button, **[ENTER]** button, and **[DISC 3]** button simultaneously.

(The "VOLUME" on the fluorescent display tube will blink while in the test mode.)

To exit the test mode, press the **[I/⏻]** button.

1. Insert the WS-48B into deck B.
2. Press the **[▶]** button of deck B.
3. Press the **[HI-SPEED DUB]** button and play the tape at double speed.
4. Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
5. Press the **[HI-SPEED DUB]** button and play the tape at normal speed.
6. Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

Adjustment Location: LEAF SW board

Sample Value of Wow and flutter

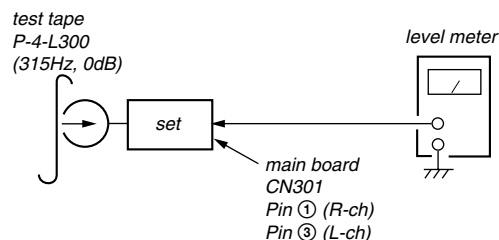
W.RMS (JIS) less than 0.3%

(test tape: WS-48B)

Playback Level Adjustment (Deck A, Deck B)

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)

so that adjustment within the following adjustment level.

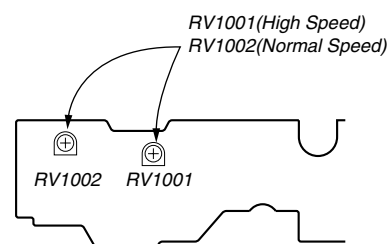
Adjustment level:

CN301 playback level: 301.5 to 338.3 mV (−8.2 to −7.2 dB)

level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

Adjustment Location [LEAF SW BOARD]




Record Bias Adjustment (Deck B)


Procedure:

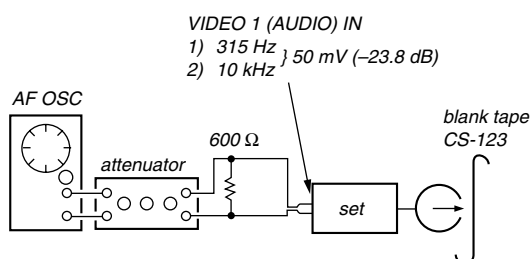
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

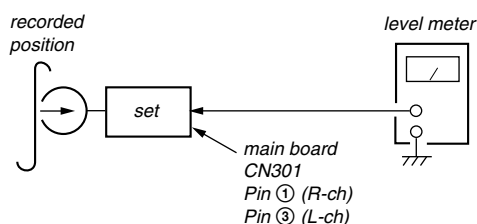
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback

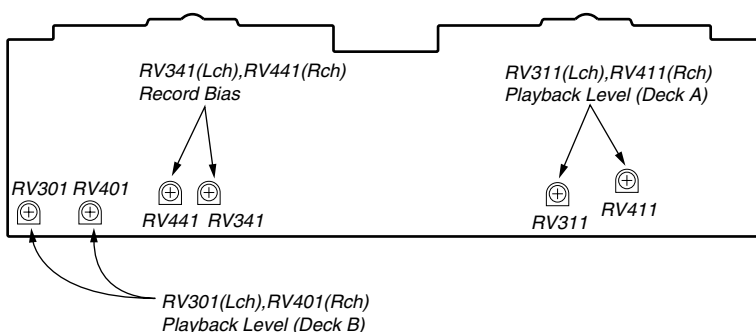


5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.

Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

Adjustment Location: AUDIO board

Adjustment Location:
[AUDIO BOARD] (Conductor Side)




Record Level Adjustment (Deck B)


Procedure:

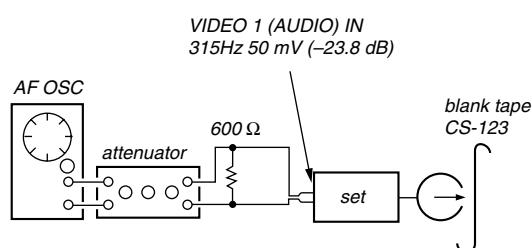
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

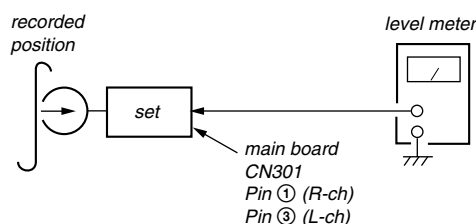
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback

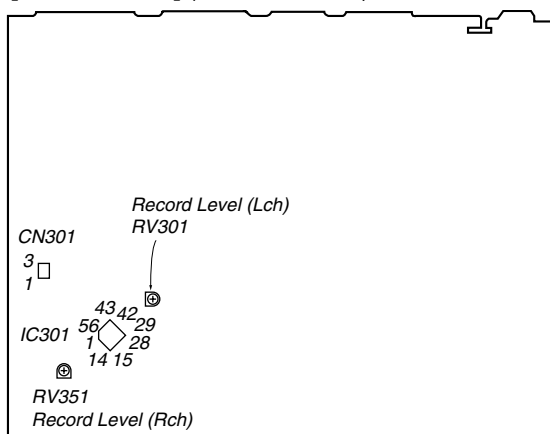


5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

Adjustment level:
CN301 playback level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

[MAIN BOARD] (Conductor Side)

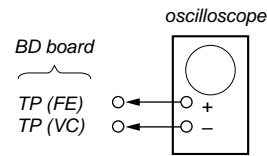


SECTION 6
DIAGRAMS

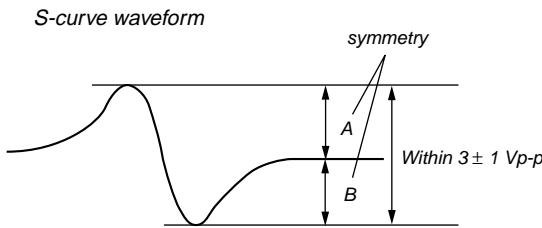
CD SECTION

- Note:**
1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
 3. Use an oscilloscope with more than 10MΩ impedance.
 4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check

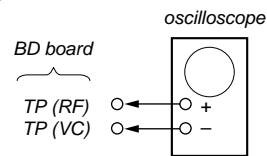


- Procedure :**
1. Connect the oscilloscope to test points TP (FE) and TP (VC).
 2. Connect TP (FE1) and GND, and TP (AGCCON) and GND of the BD board with lead wires.
 3. Press the button to turn the set ON.
 4. With the disc (YEDS-18) loaded, press the button and perform focus search. (Focus search will be performed in the same way even while the disc table is pushed in and out.)
 5. Check the symmetry and peak to peak level of the oscilloscope waveform (S curve) at this time.



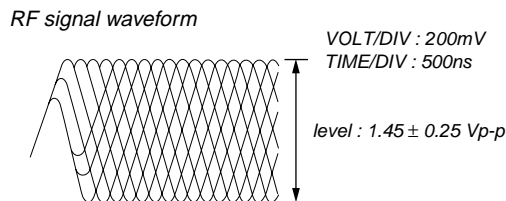
6. After check, remove the lead wire connected in step 2.
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

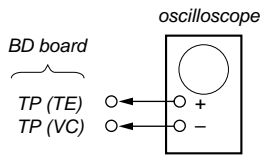


- Procedure :**
1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
 2. Press the button to turn the set ON.
 3. Put disc (YEDS-18) in and playback 5 track.
 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

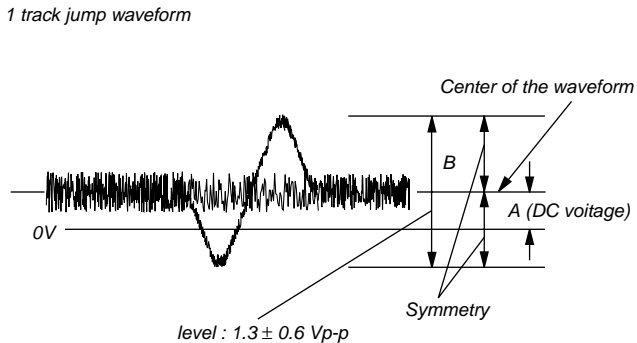


E-F Balance (1 Track Jump) check



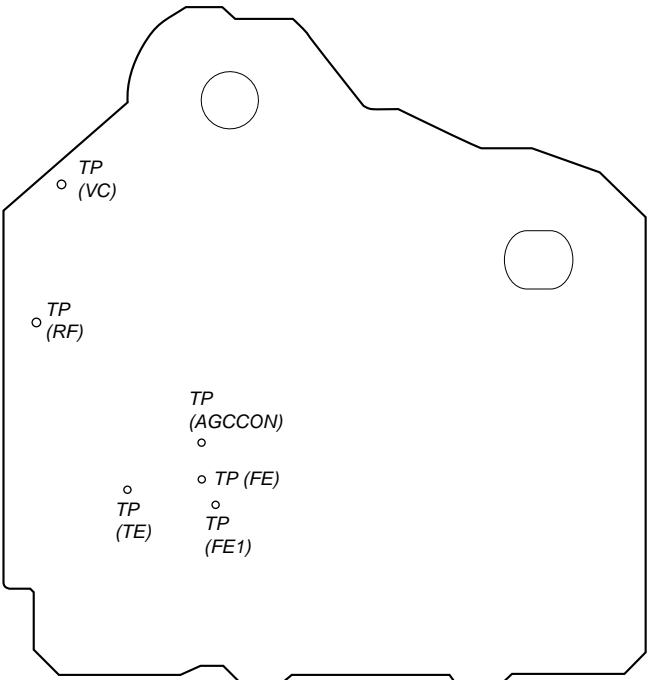
- Procedure:**
1. Connect oscilloscope to test point TP (TE) on BD board.
 2. Press the button to turn the unit ON.
 3. Put disc (YEDS-18) in to play the number five track.
 4. Press the button.
 5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.

- Confirm the following:
- $A/B \times 100 = \text{less then } \pm 22 (\%)$
 - $B = 1.3 \pm 0.6 \text{ Vp-p}$

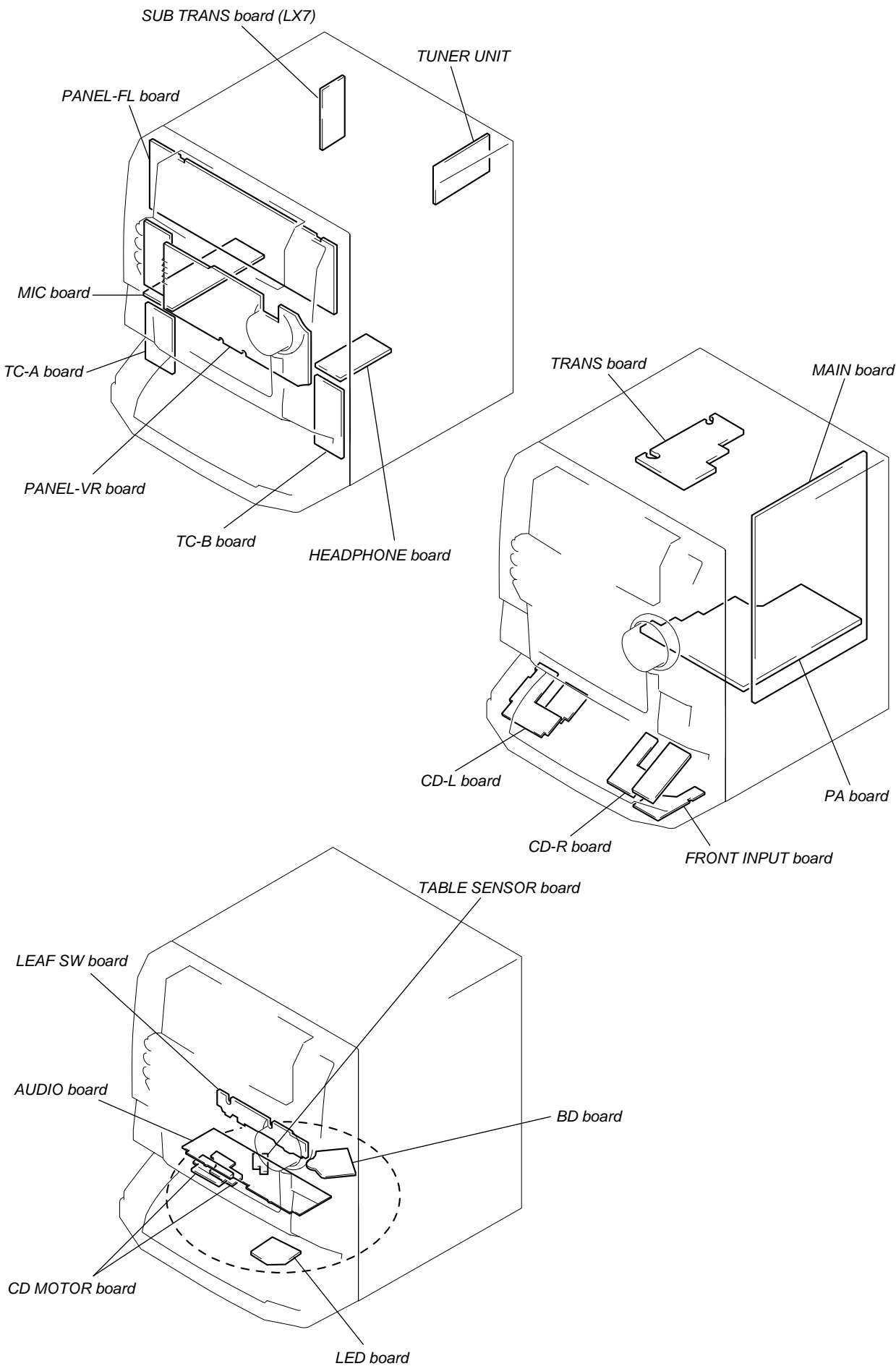


Adjustment Location :

[BD BOARD] — SIDE A —

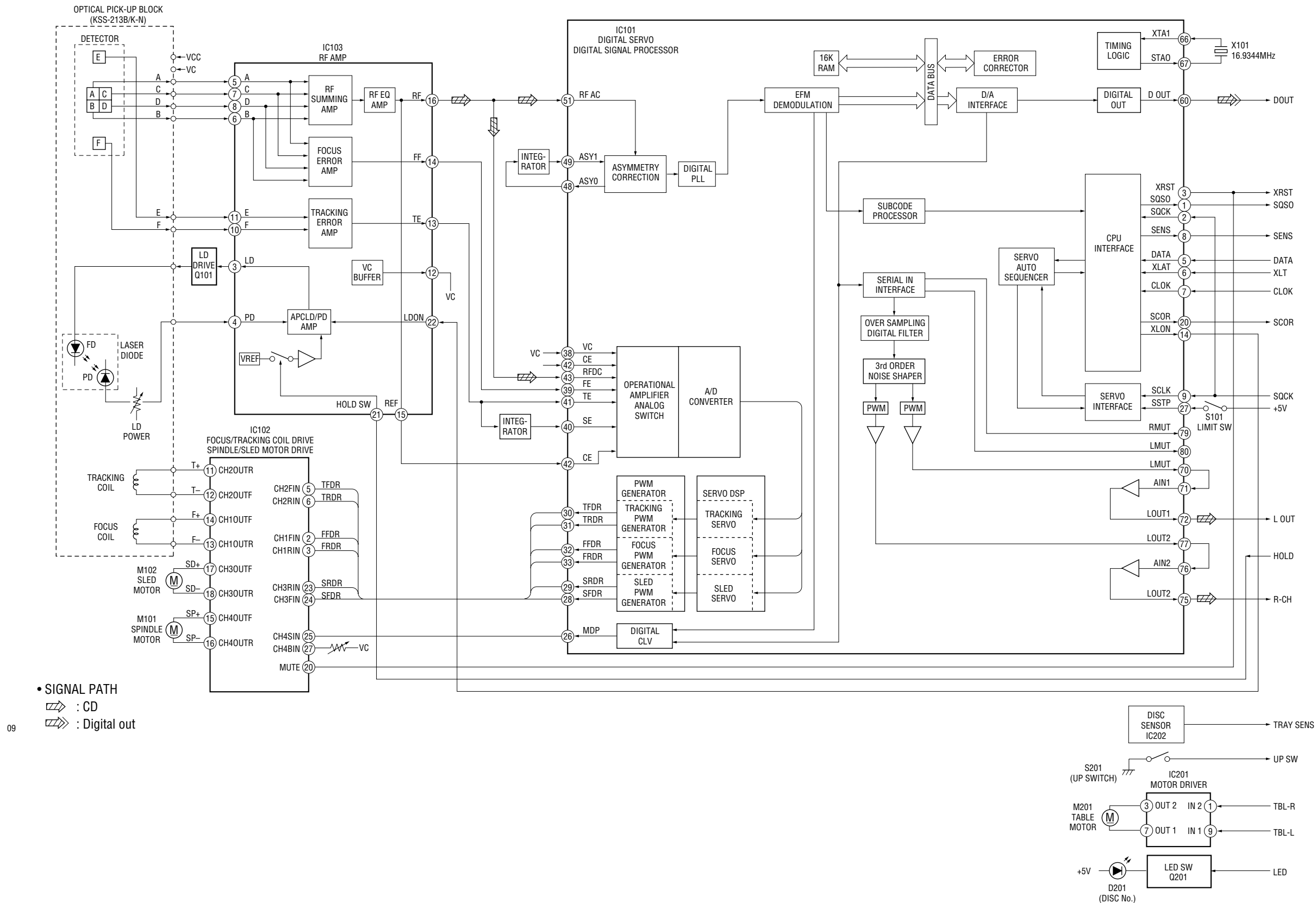


6-1. CIRCUIT BOARDS LOCATION

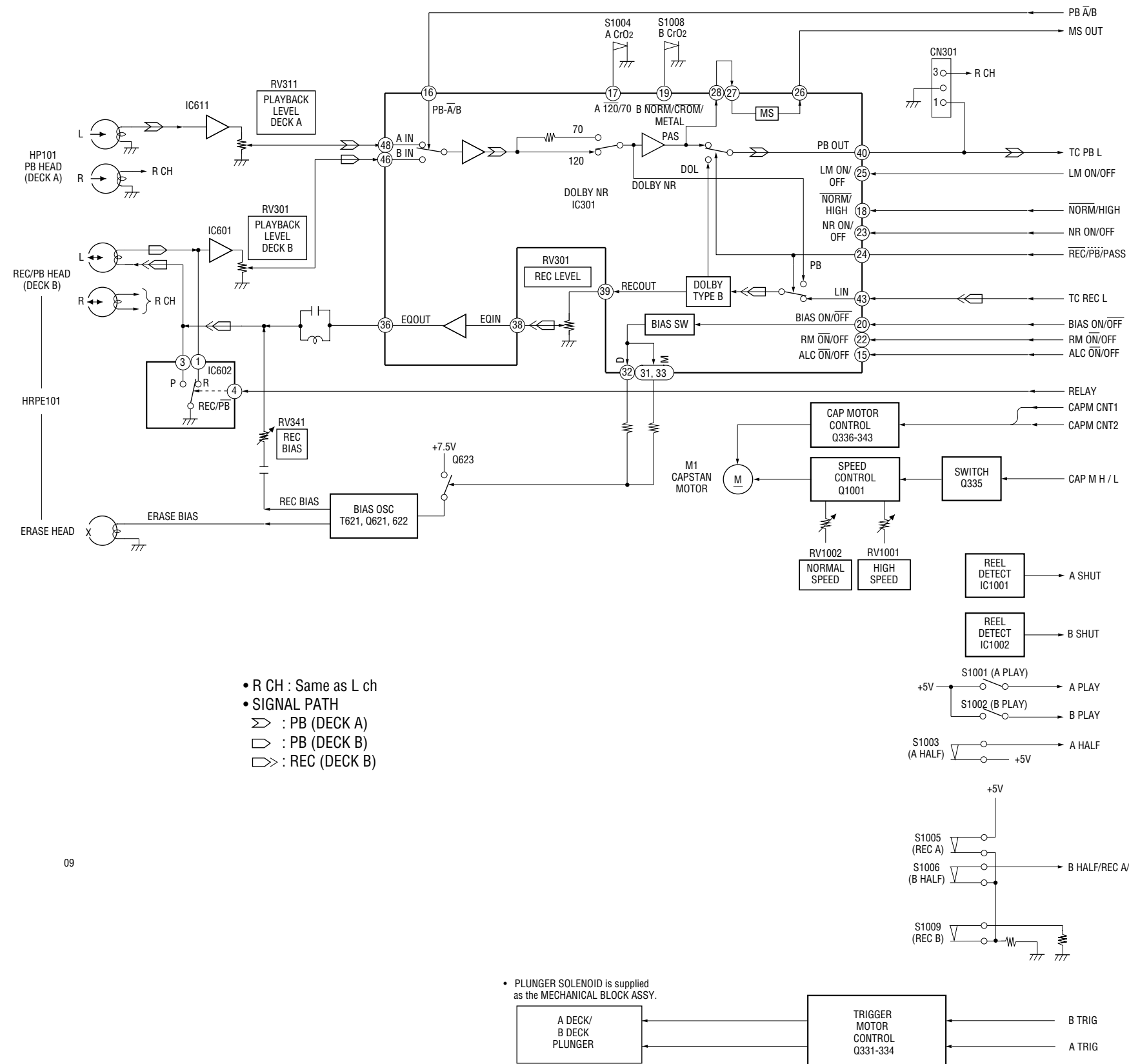


6-2. BLOCK DIAGRAMS

– BD (CD) SECTION –

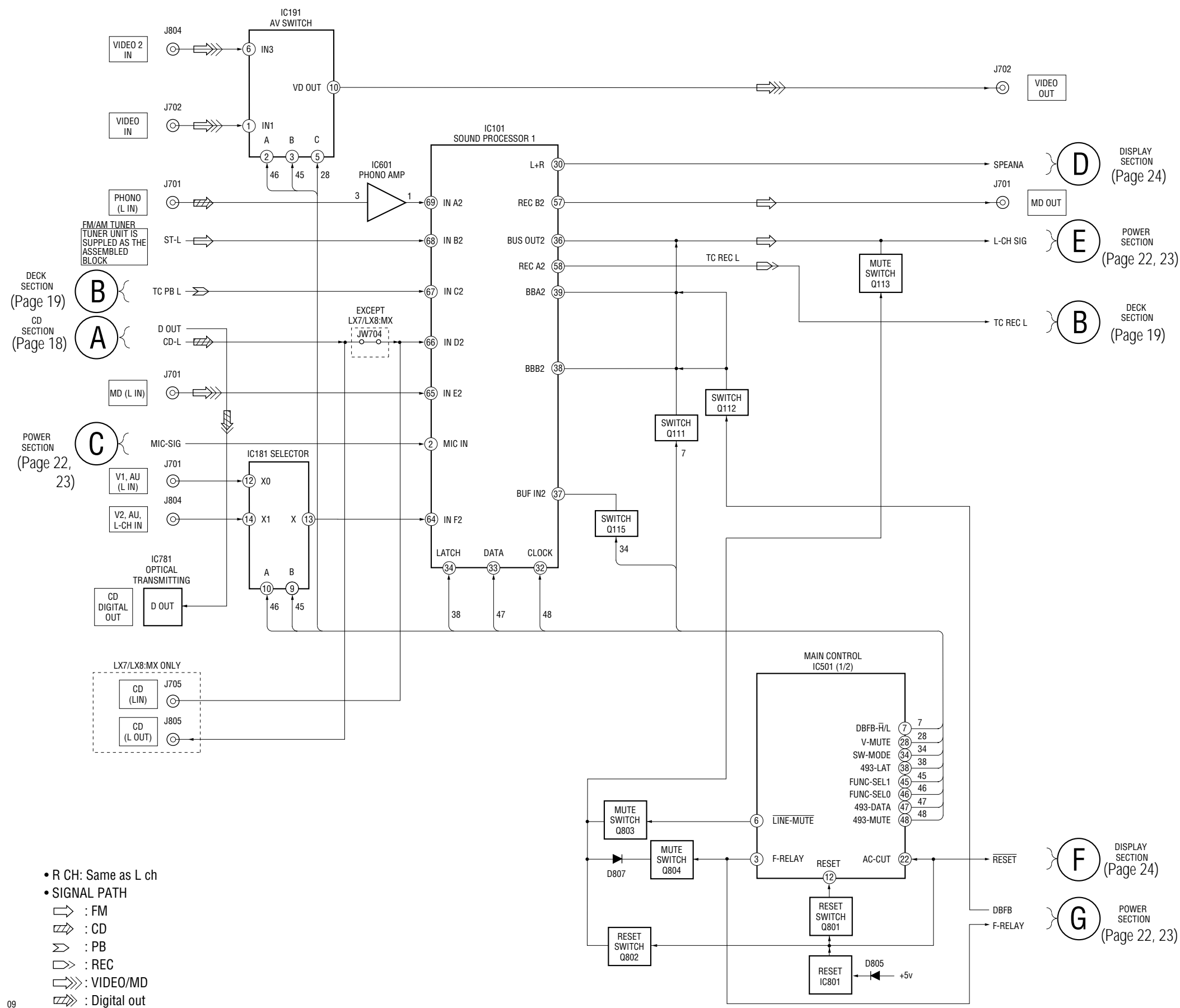


– DECK SECTION –

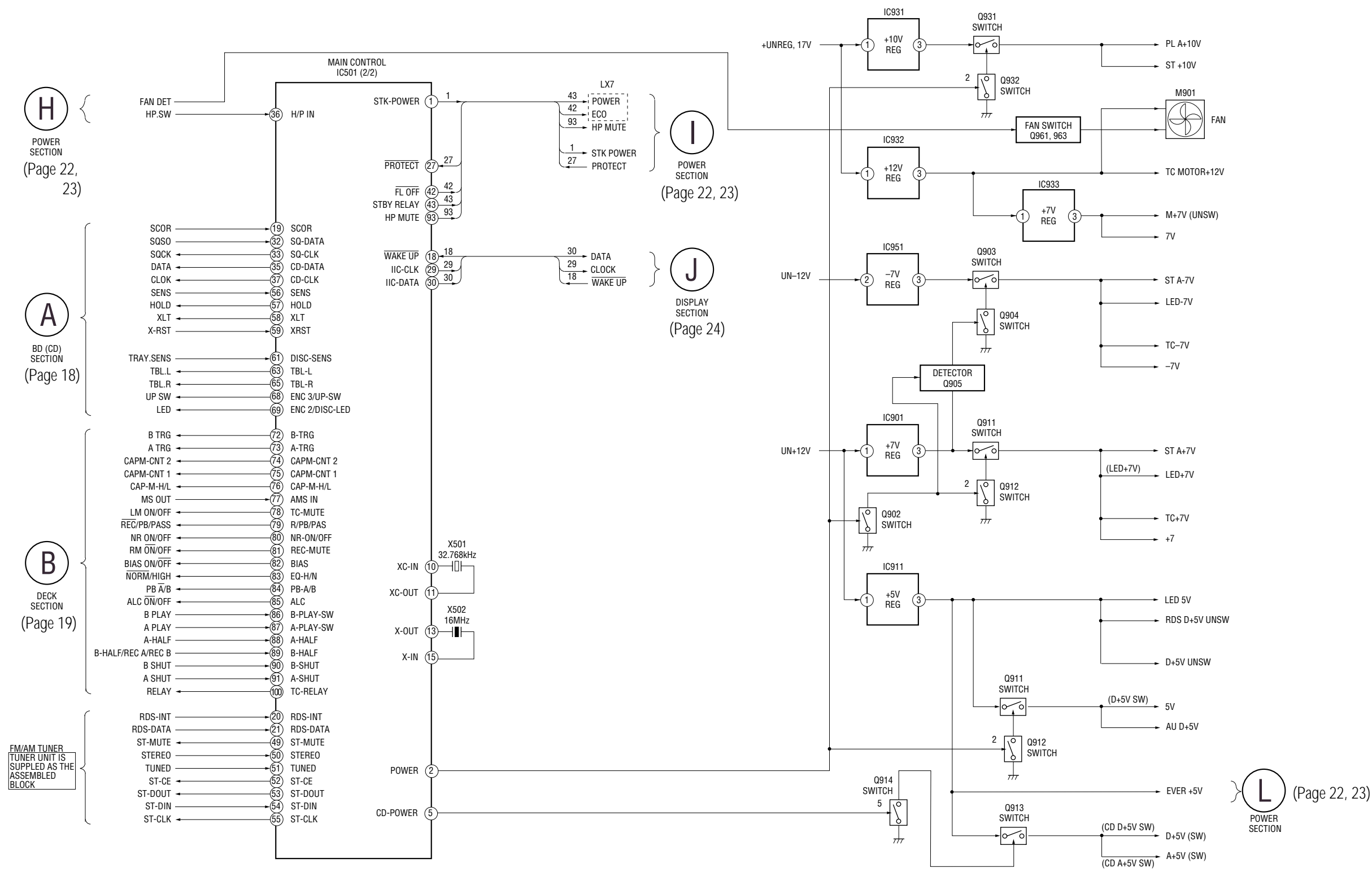


B
MAIN
SECTION
(Page 20, 21)

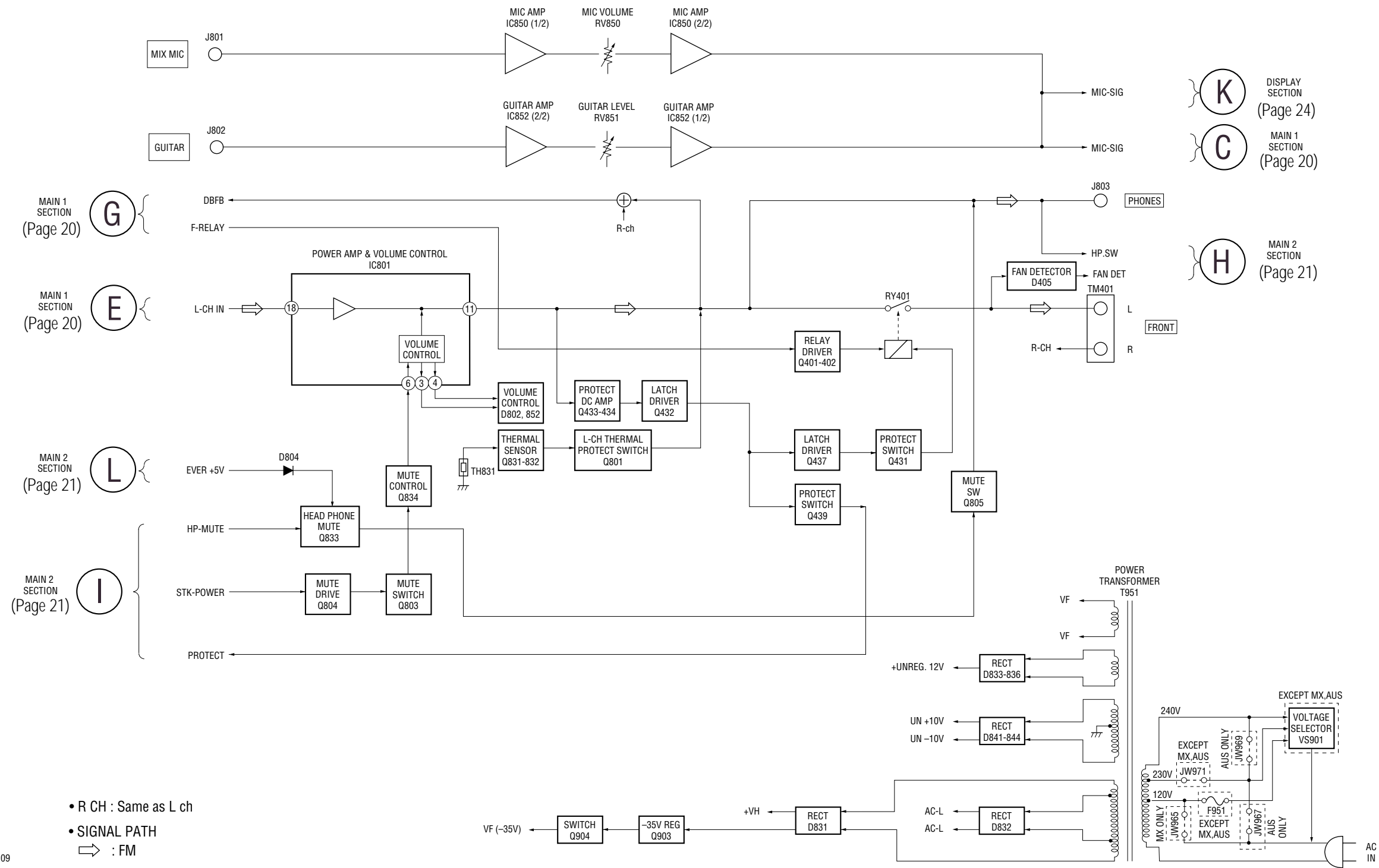
– MAIN (1/2) SECTION –



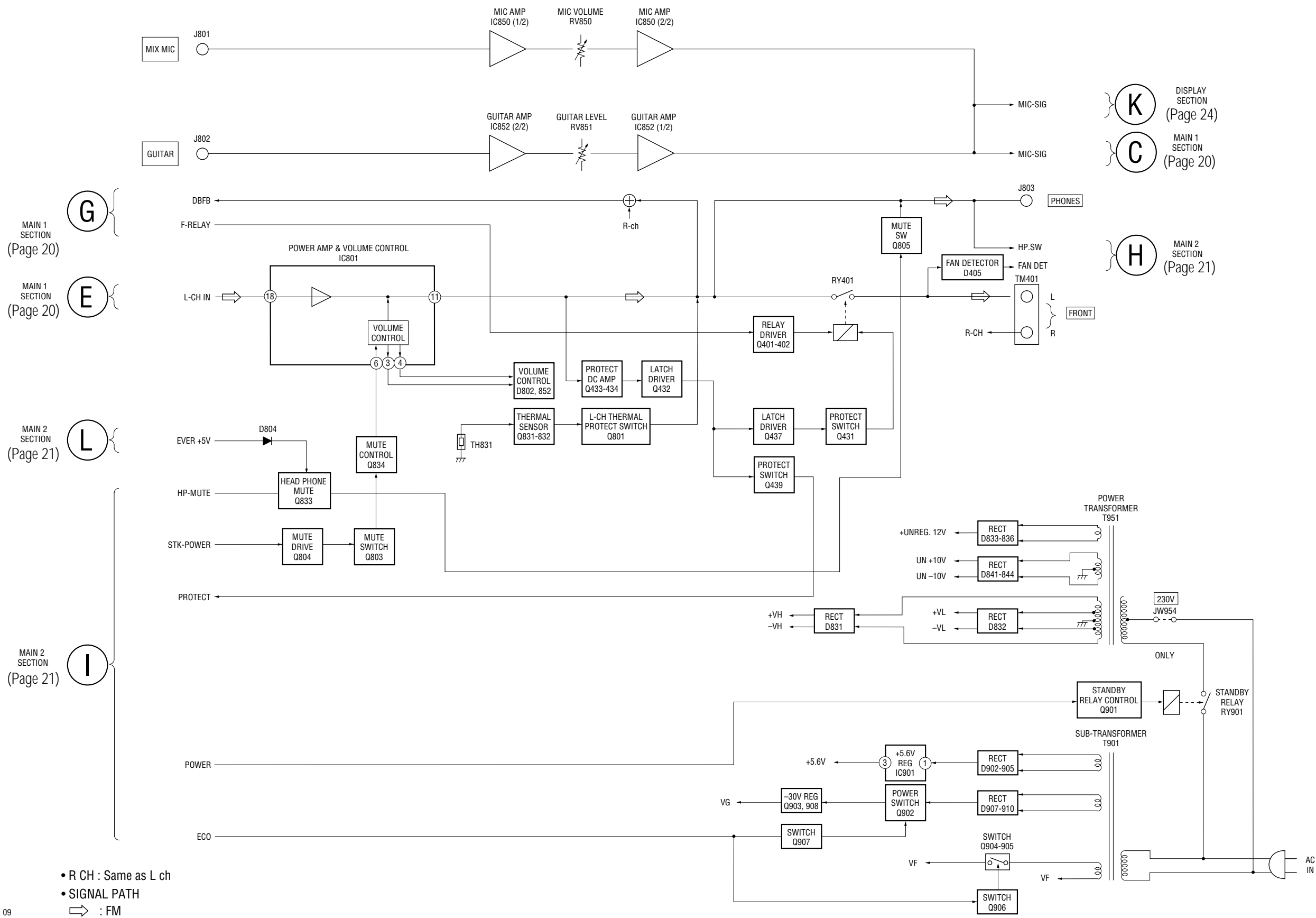
– MAIN (2/2) SECTION –



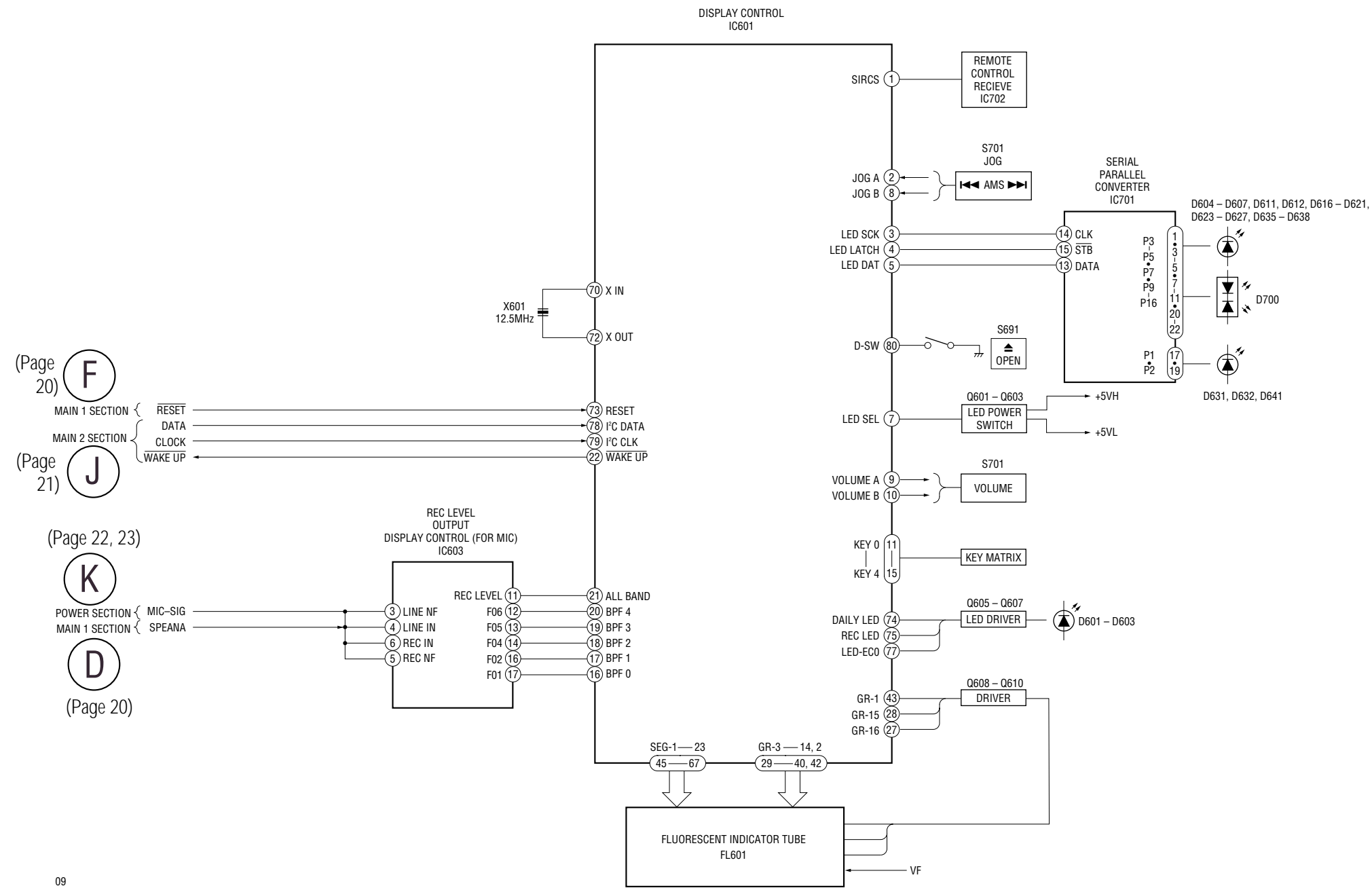
– POWER SECTION – (LX8 model)



– POWER SECTION – (LX7 model)






– DISPLAY SECTION –














THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:




- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- \triangle : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : FM
 -  : VIDEO/MD
 -  : PB (DECK A)
 -  : PB (DECK B)
 -  : REC (DECK B)
 -  : CD
 -  : digital out
 -  : PHONO
- Abbreviation
 - EA : Saudi Arabia model.
 - AR : Argentine model.
 - SP : Singapore model.
 - MY : Malaysia model.
 - MX : Mexican model.
 - AUS : Australian model.

For printed wiring boards.

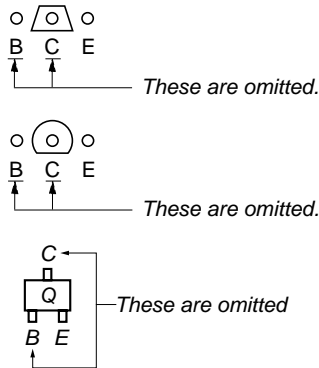
Note:

-  : parts extracted from the component side.
 -  : Through hole.
 -  : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

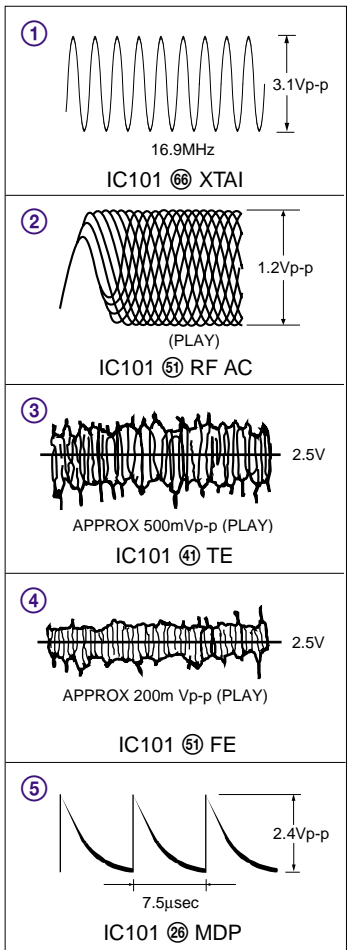
Caution:

Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A)

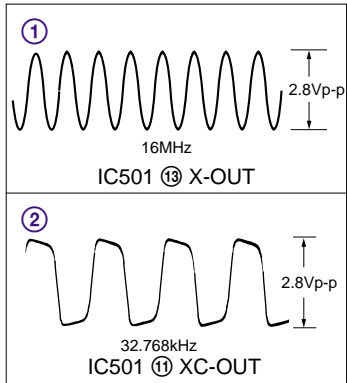
• Indication of transistor



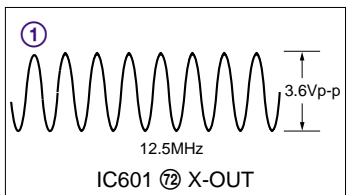
WAVEFORMS
– BD (CD) SECTION –



– MAIN (2/3) SECTION –

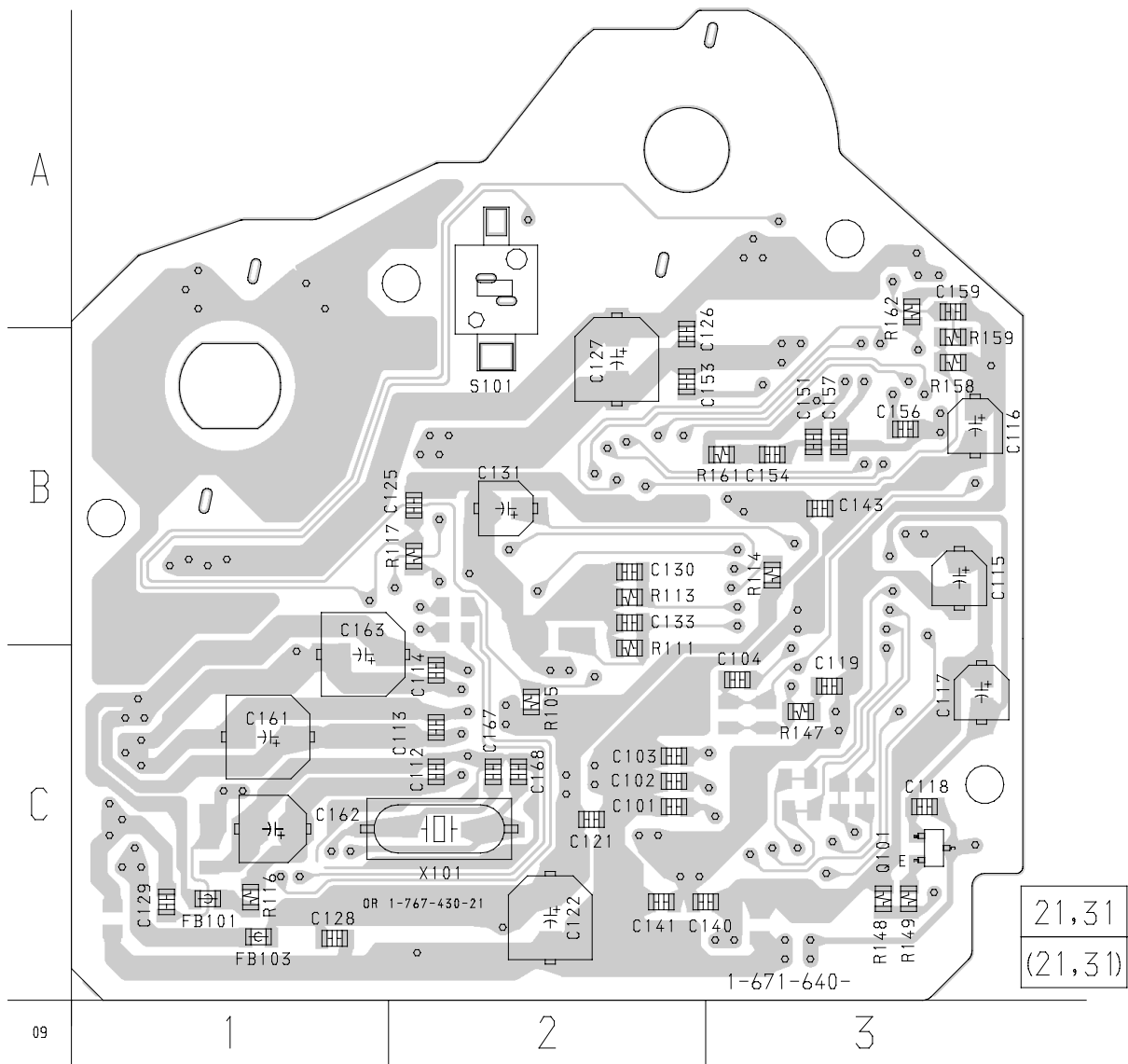


– PANEL FL SECTION –

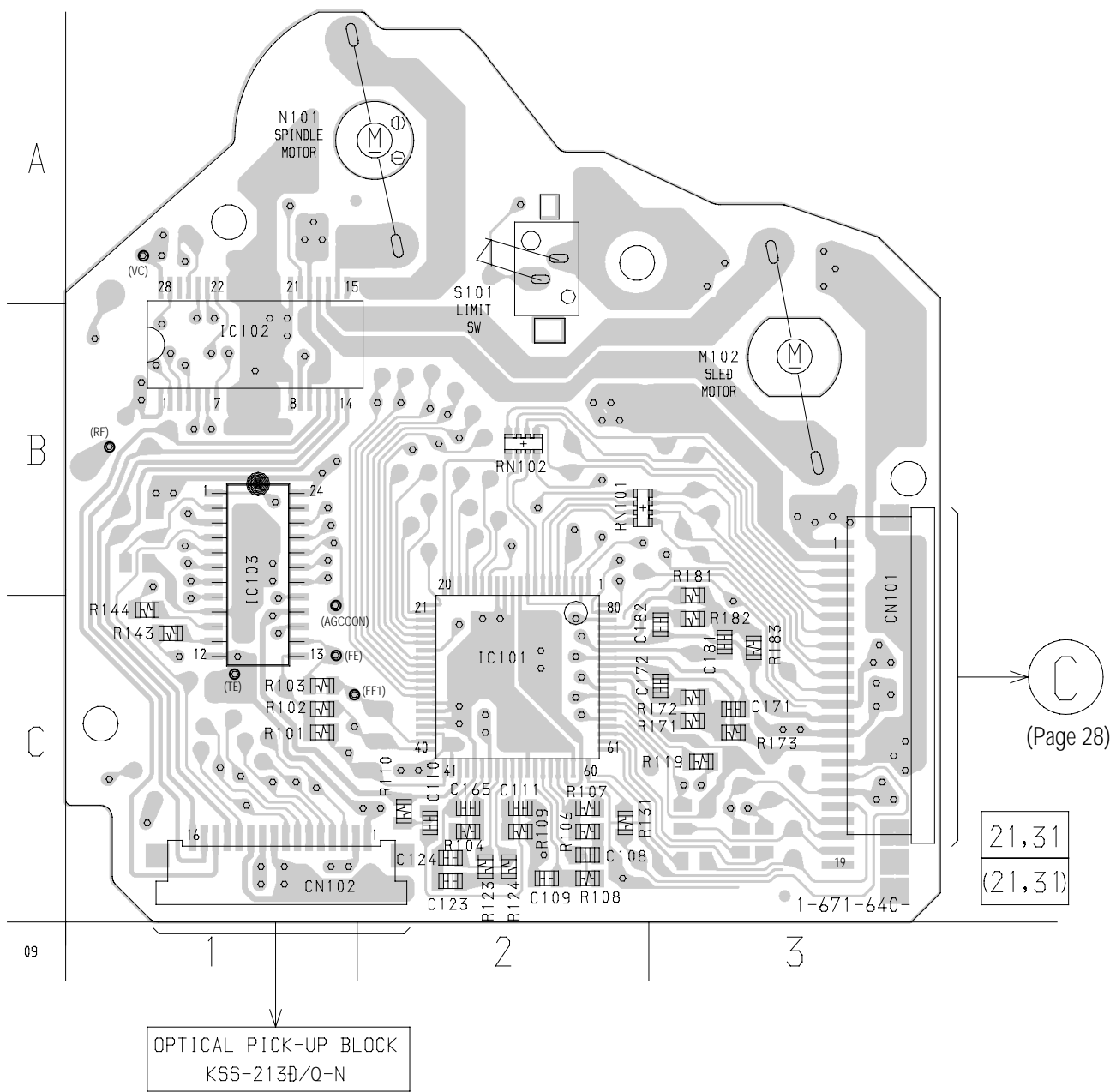


6-3. PRINTED WIRING BOARD – BD (CD) SECTION –
• See page 17 for Circuit Boards Location.

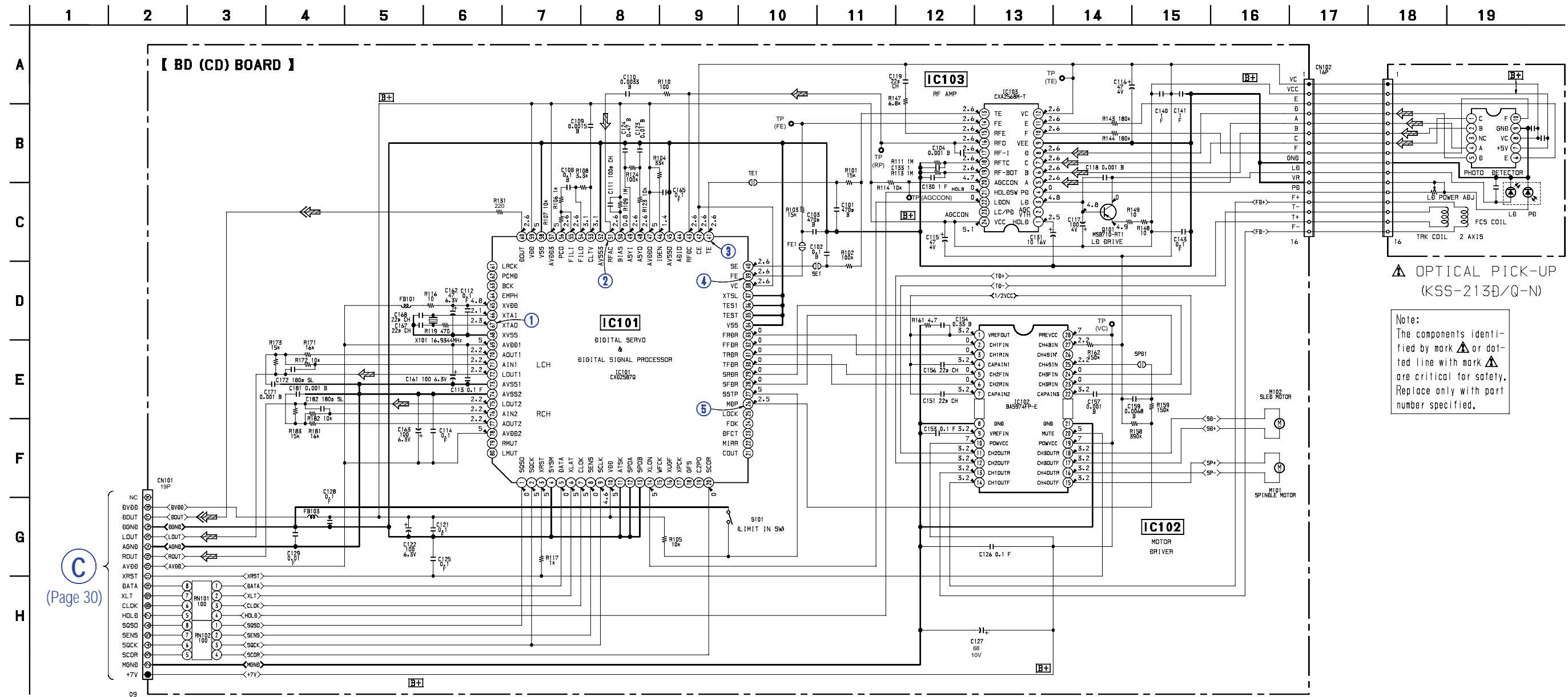
【 BD (CD) BOARD 】(SIDE A)



【 BD (CD) BOARD 】(SIDE B)



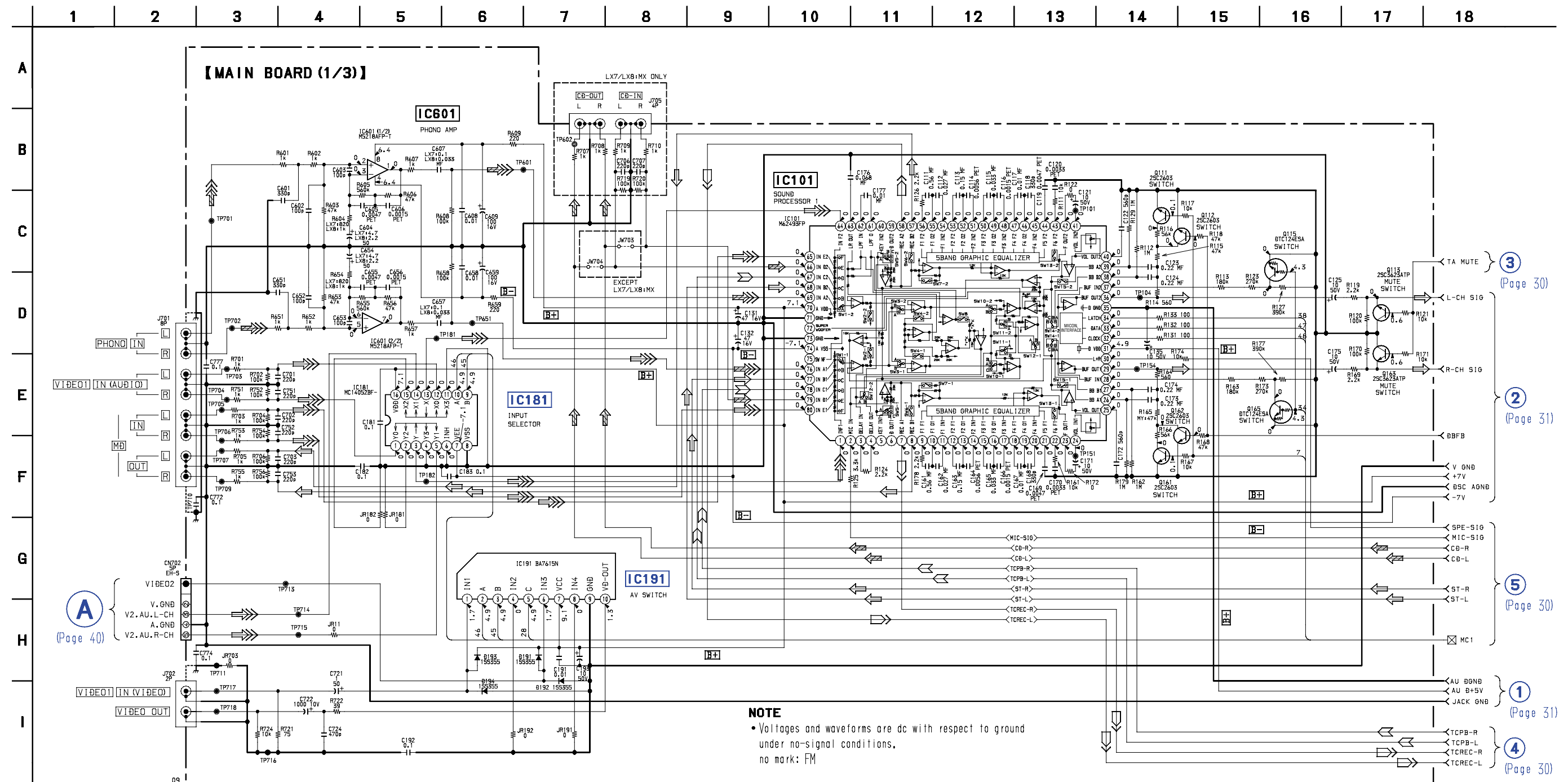
6-4. SCHEMATIC DIAGRAM – BD (CD) SECTION –
• See page 25 for Waveforms.



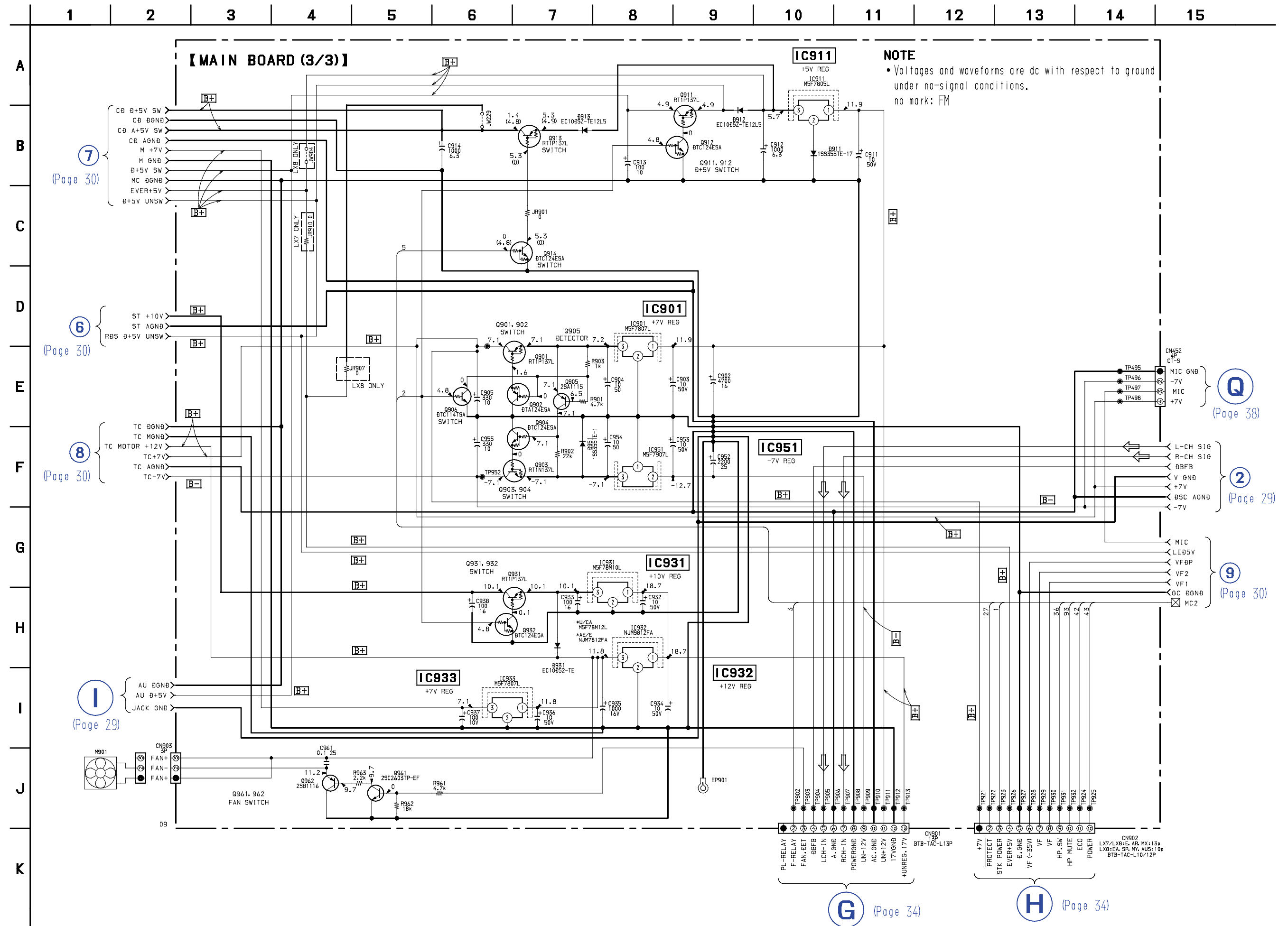
C
(Page 30)

6-6. SCHEMATIC DIAGRAM – MAIN (1/3) SECTION –

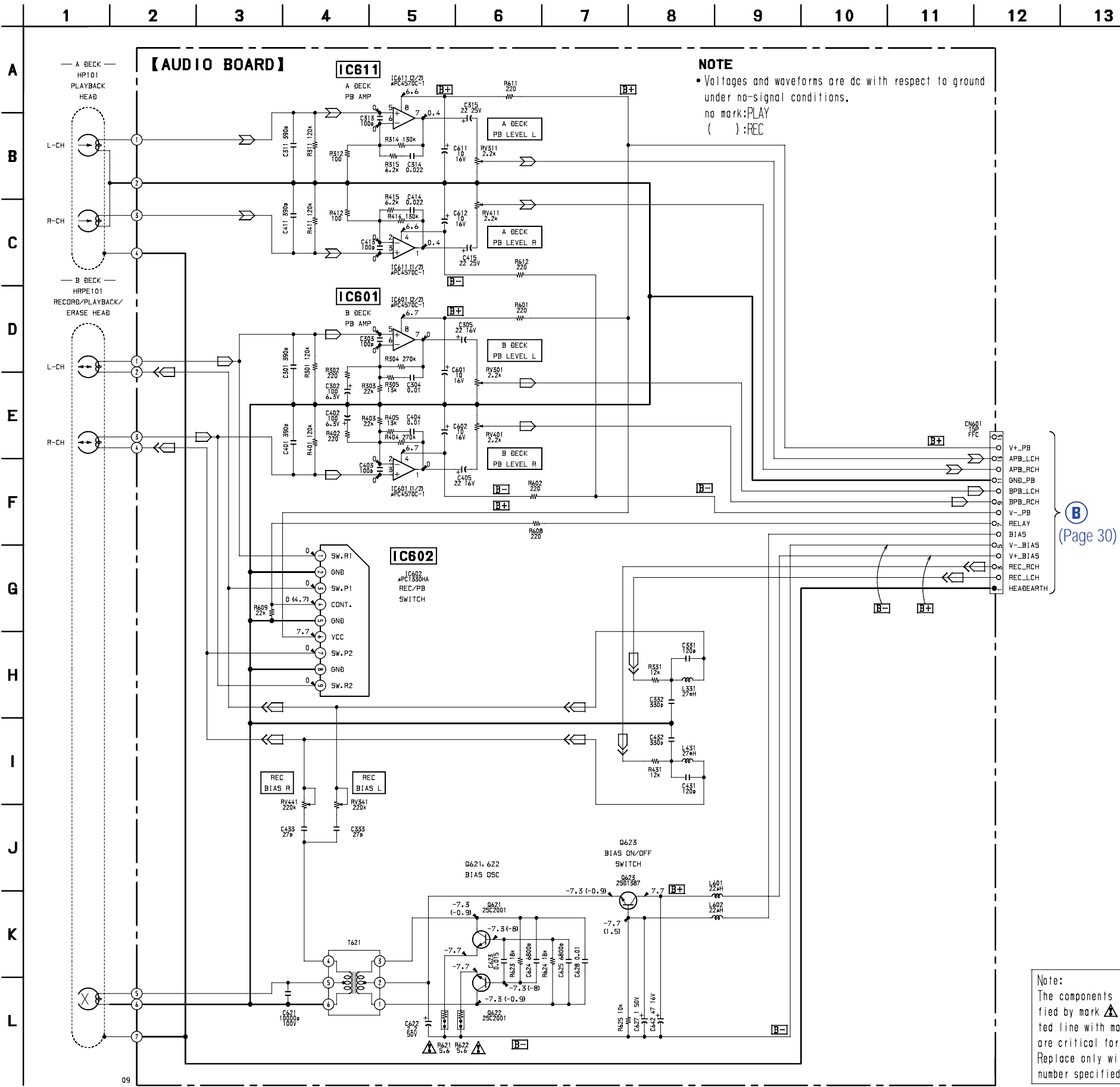
- See page 50 for IC Block Diagrams.



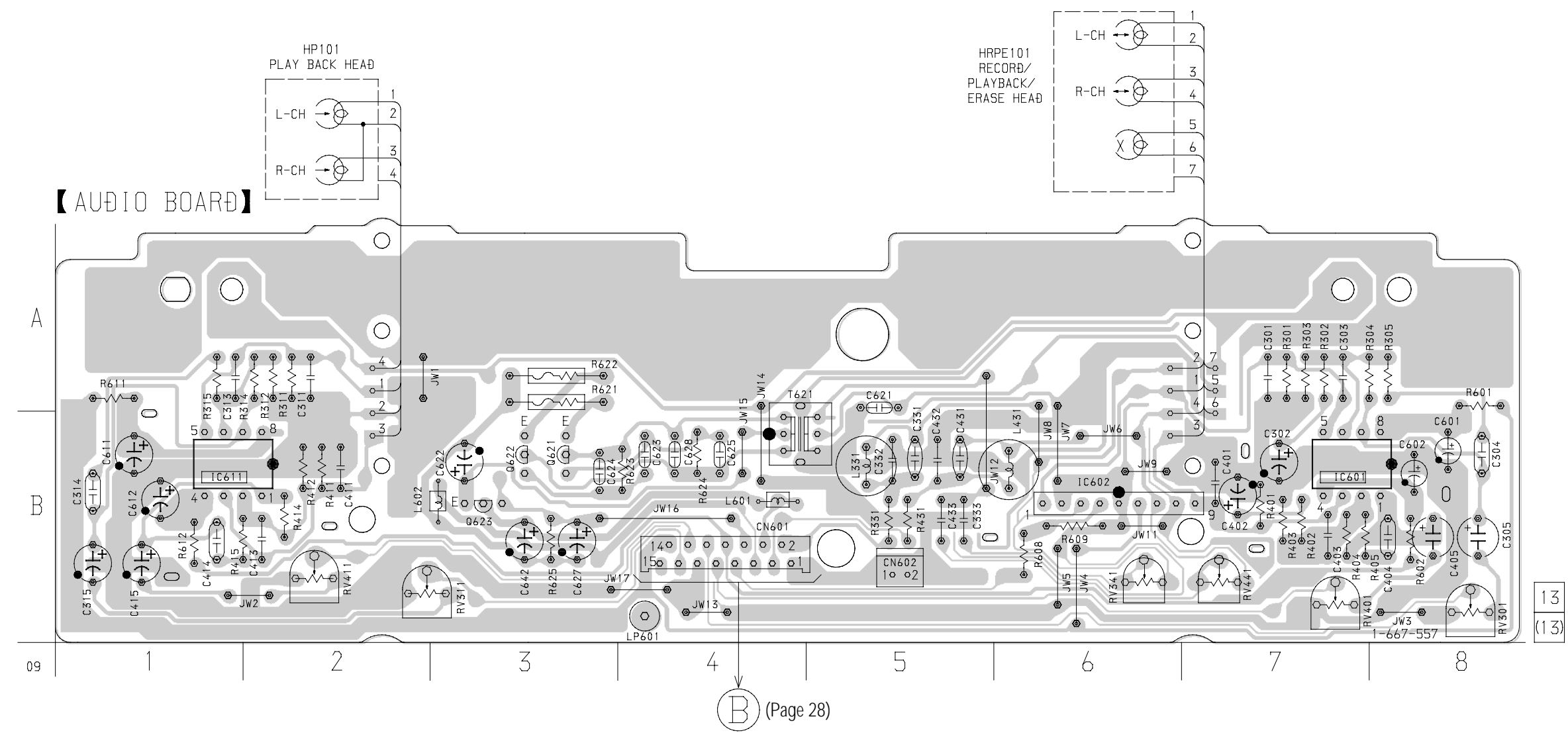




6-9. SCHEMATIC DIAGRAM – DECK SECTION –

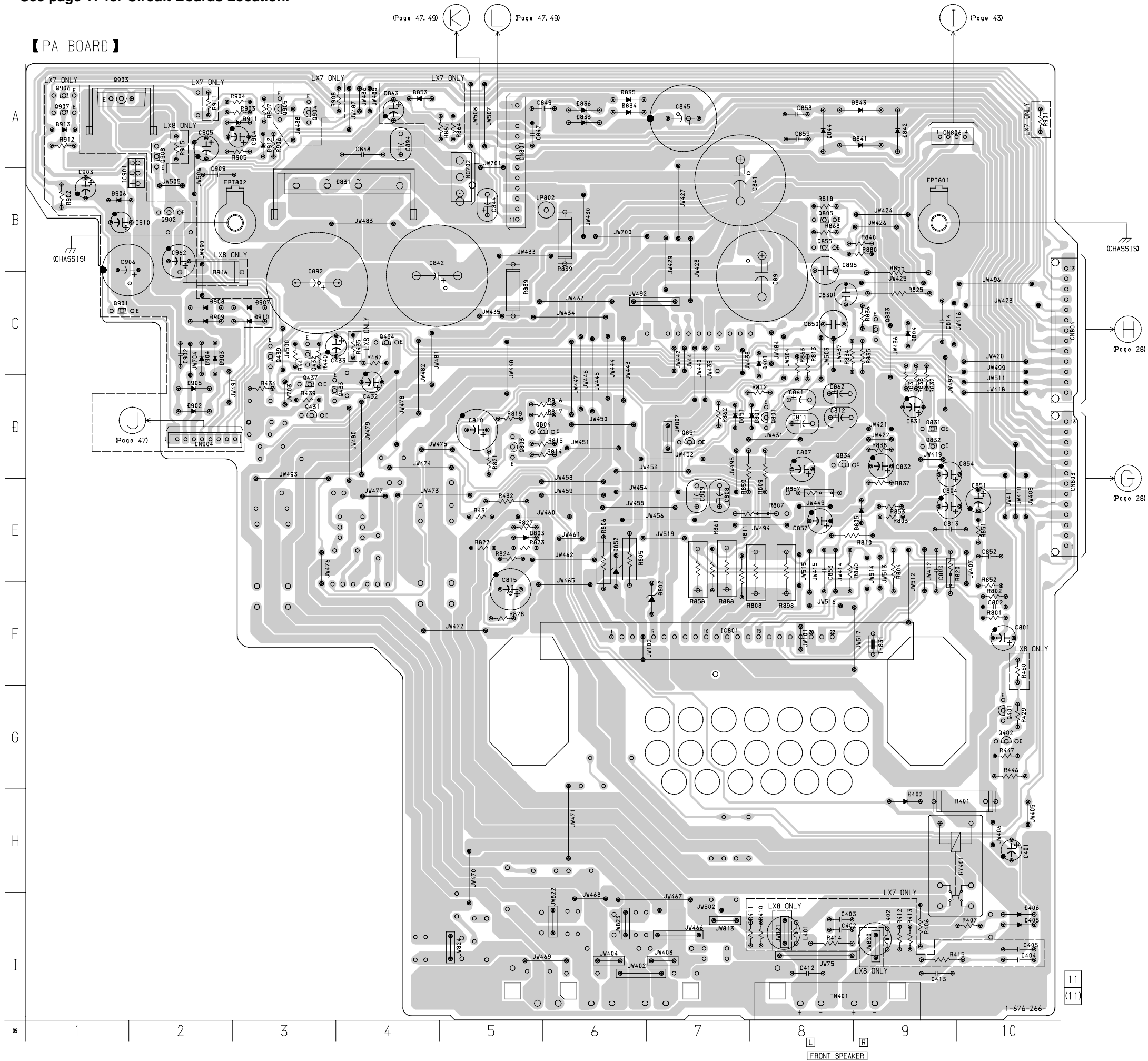


6-10. PRINTED WIRING BOARD – DECK SECTION –
• See page 17 for Circuit Boards Location.





6-12. PRINTED WIRING BOARD – POWER SECTION –
• See page 17 for Circuit Boards Location.



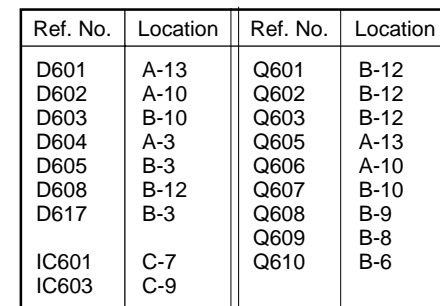
• Semiconductor Location

Ref. No.	Location
D401	C-8
D402	H-9
D405	I-10
D406	I-10
D801	D-8
D802	F-7
D803	E-5
D804	C-9
D805	E-9
D831	B-4
D833	A-6
D834	A-6
D835	A-6
D841	A-9
D842	A-9
D843	A-9
D844	A-8
D851	D-7
D852	E-6
D853	A-4
D902	D-2
D903	C-2
D904	C-2
D905	D-2
D906	B-1
D907	C-3
D908	C-2
D909	C-2
D910	C-3
D911	A-3
D912	A-3
D913	A-1
IC801	F-7
IC901	B-2
Q401	G-10
Q402	G-10
Q431	D-3
Q432	C-3
Q433	D-4
Q434	C-4
Q437	D-3
Q439	C-3
Q801	D-8
Q803	D-5
Q804	D-6
Q805	B-8
Q831	D-9
Q832	D-9
Q833	C-9
Q834	D-8
Q851	D-7
Q855	B-8
Q901	C-1
Q902	B-2
Q903	A-1
Q904	A-3
Q905	A-3
Q906	A-1
Q907	A-1
Q908	A-2

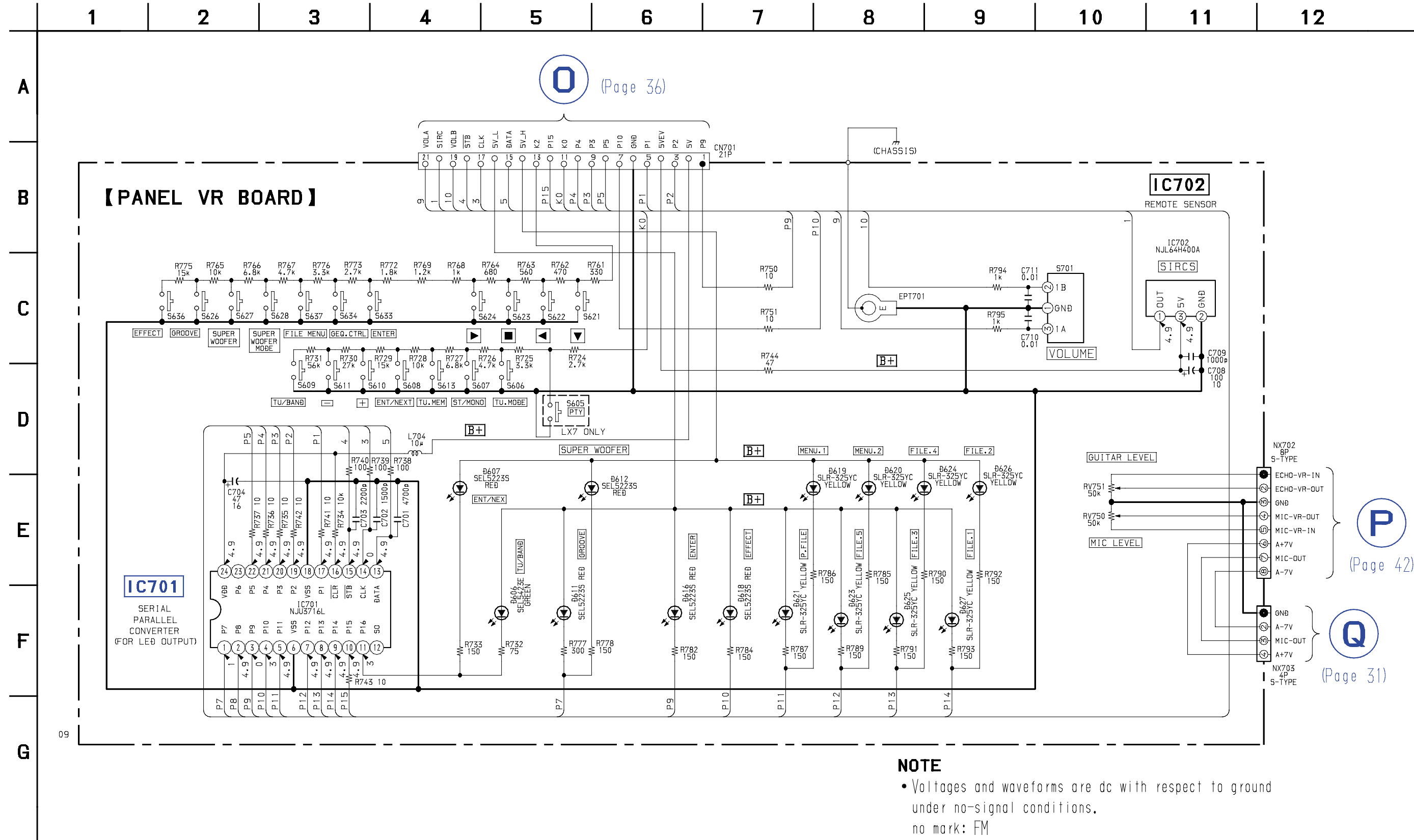
- See page 25 for Waveforms.
- See page 50 for IC Block Diagrams.
- See page 52 for IC Pin Functions.



- **Semiconductor Location**

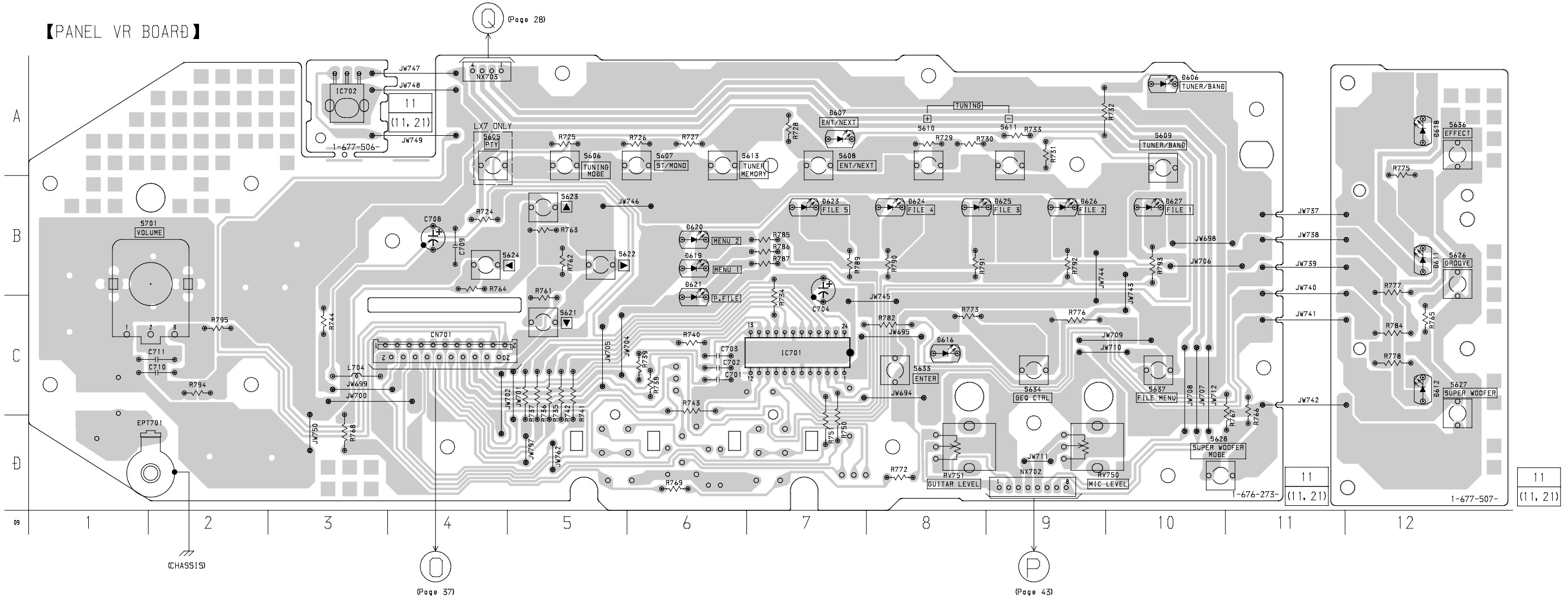


6-15. SCHEMATIC DIAGRAM – PANEL VR SECTION –
• See page 50 for IC Block Diagrams.



NOTE
• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM

6-16. PRINTED WIRING BOARD – PANEL VR SECTION –
• See page 17 for Circuit Boards Location.

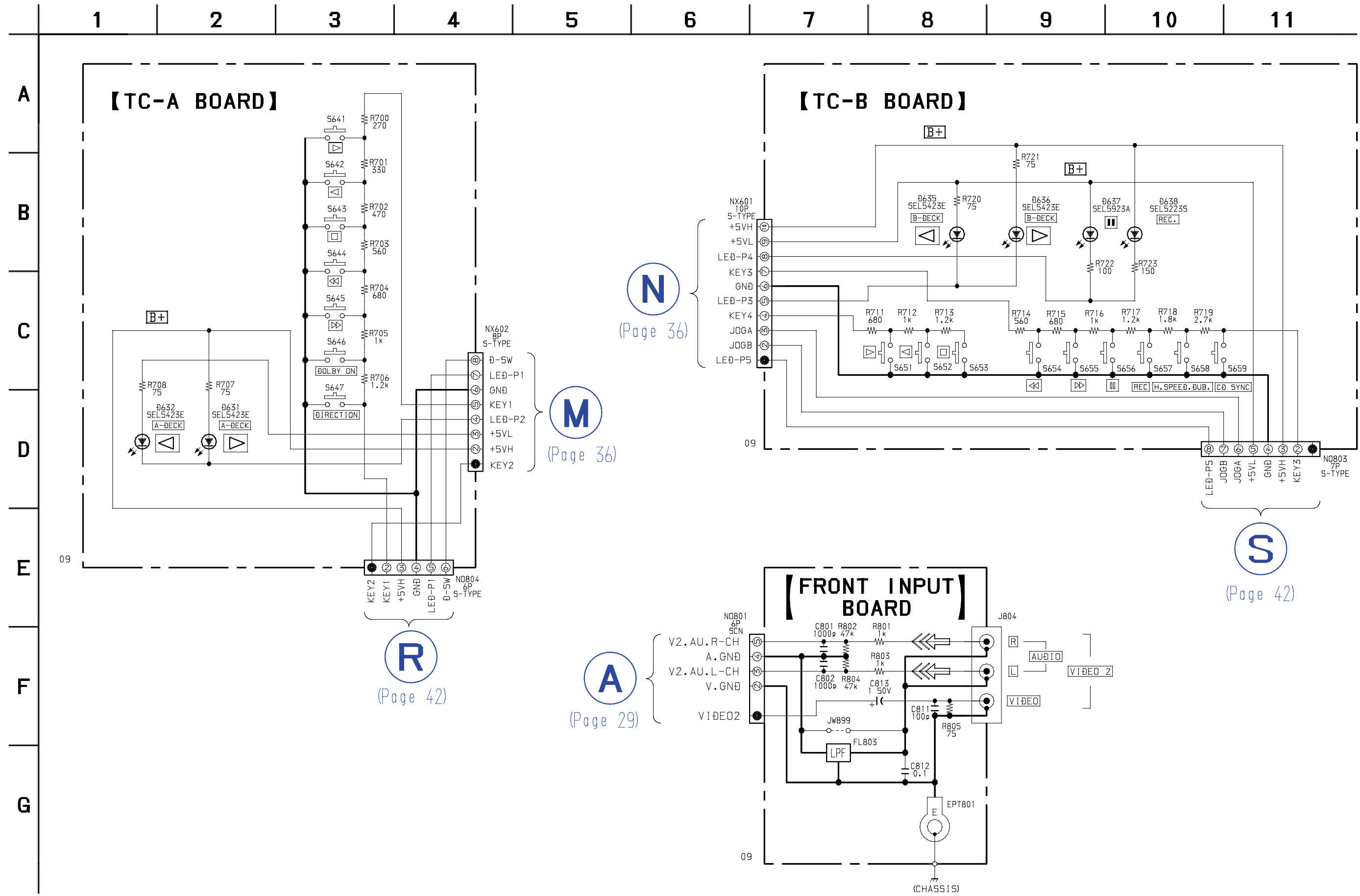


• Semiconductor Location

Ref. No. Location

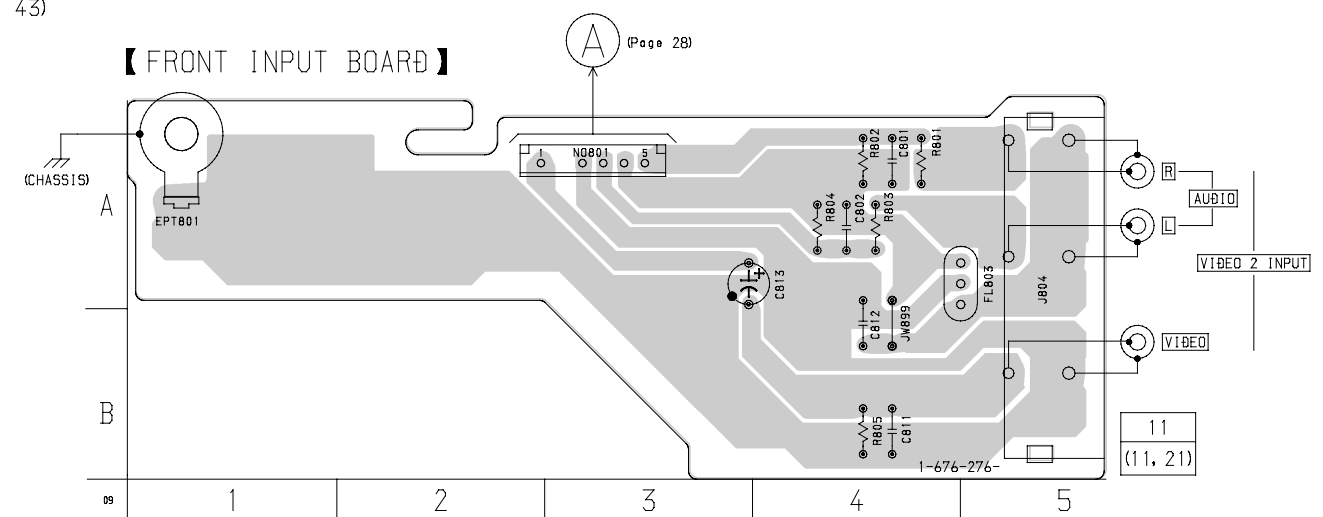
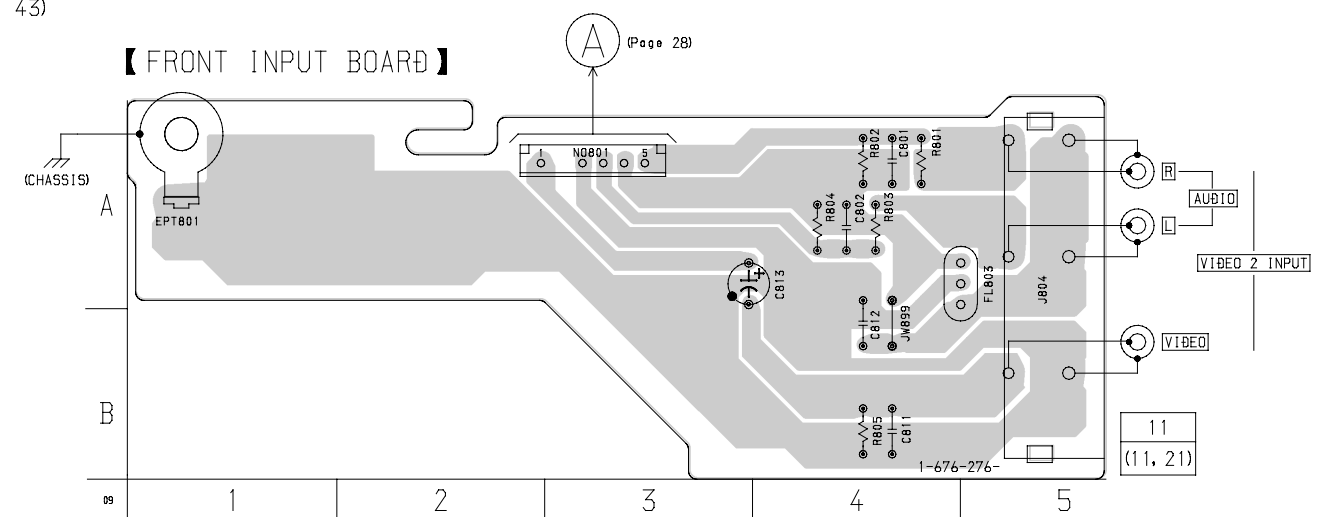
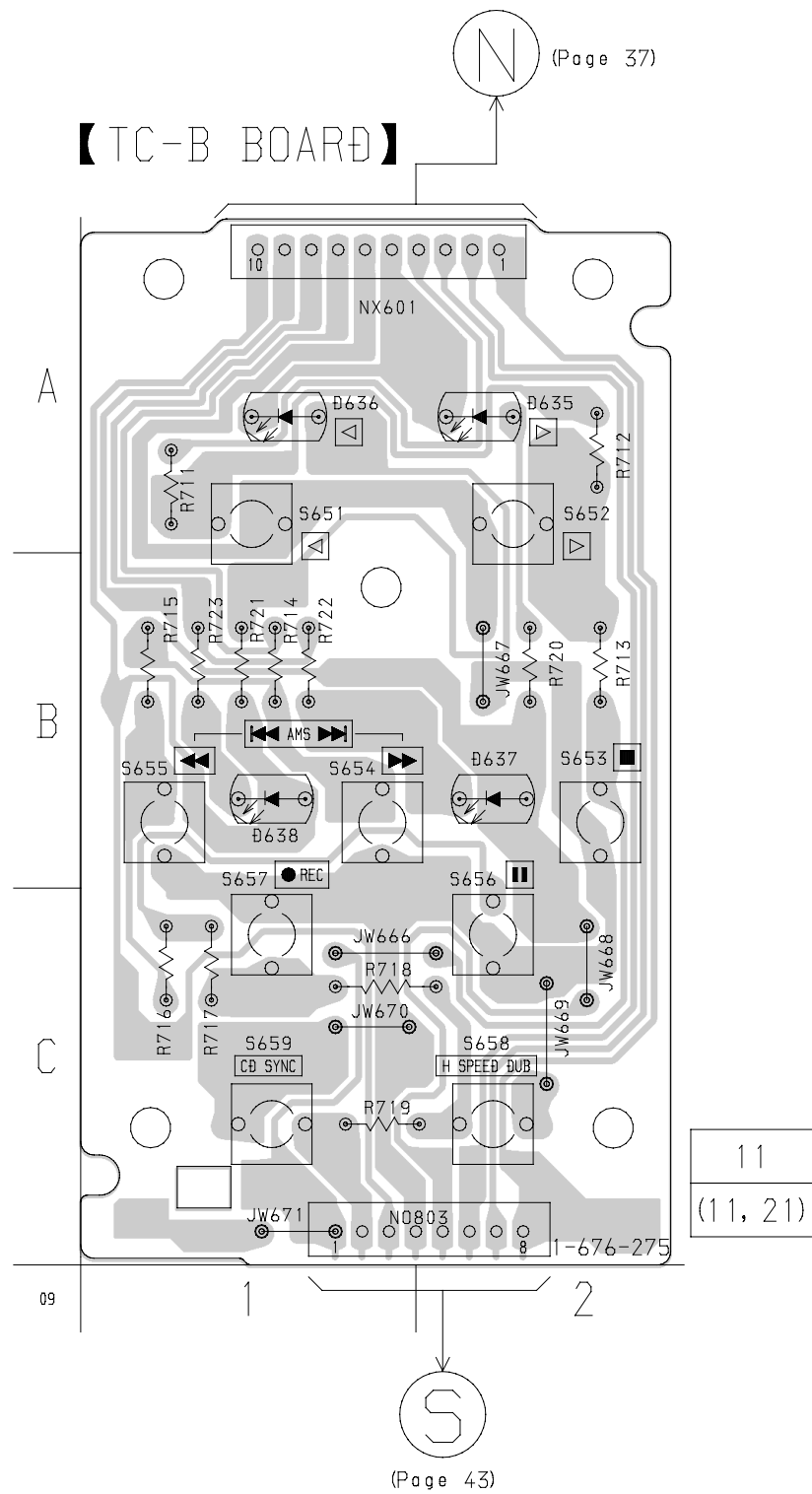
D606	A-10
D607	A-7
D611	B-11
D612	C-12
D616	C-8
D618	A-12
D619	B-6
D620	B-6
D621	B-6
D623	B-7
D624	B-8
D625	B-8
D626	B-9
D627	B-10
IC701	C-7
IC702	A-3

6-17. SCHEMATIC DIAGRAM – TC PANEL SECTION –

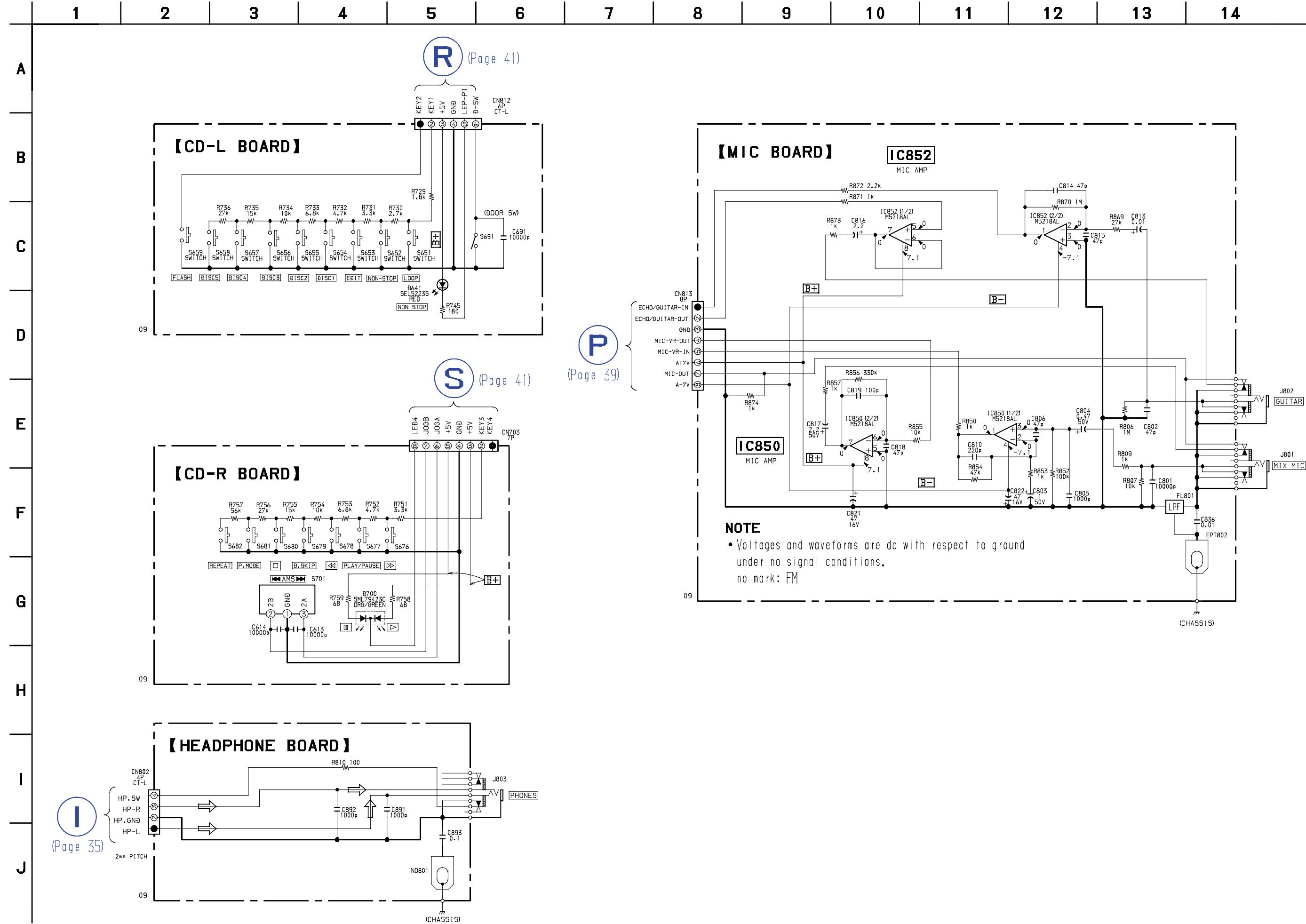


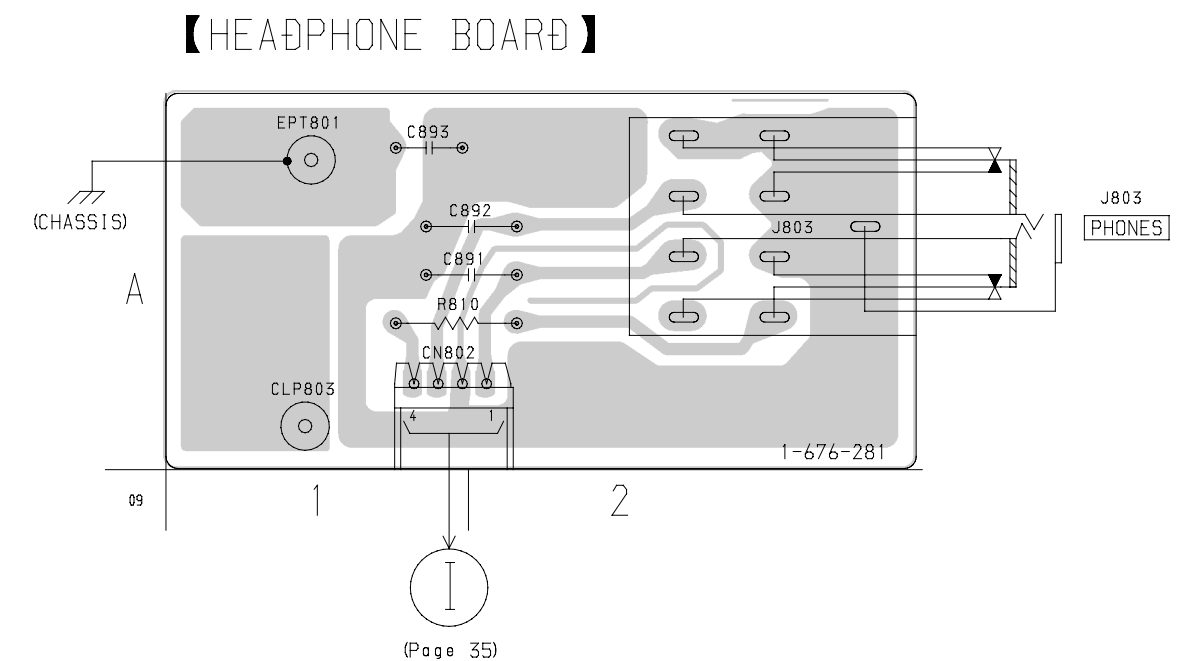
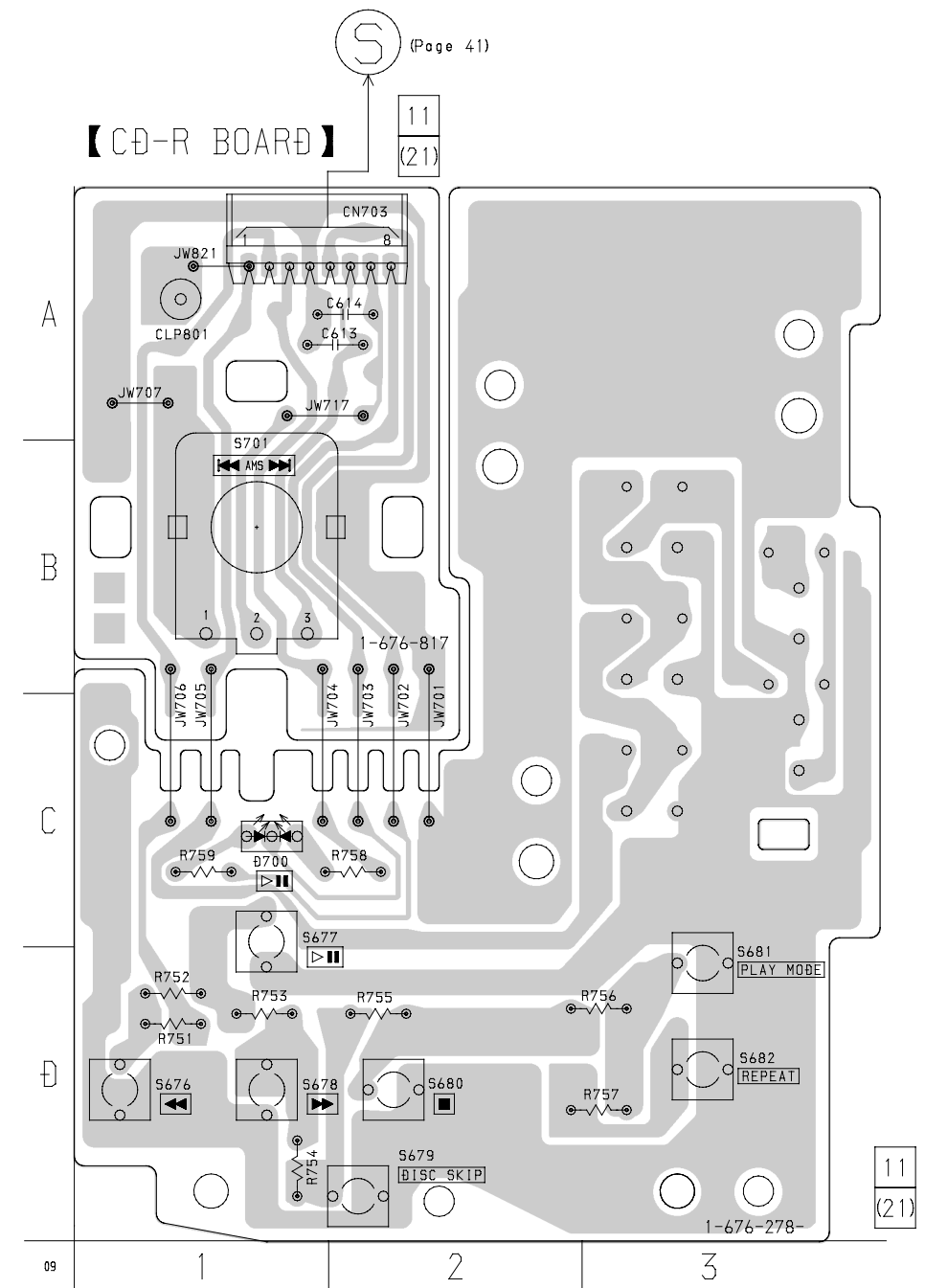
6-18. PRINTED WIRING BOARD – TC PANEL SECTION –
 • See page 17 for Circuit Boards Location.

- See page 17 for Circuit Boards Location.

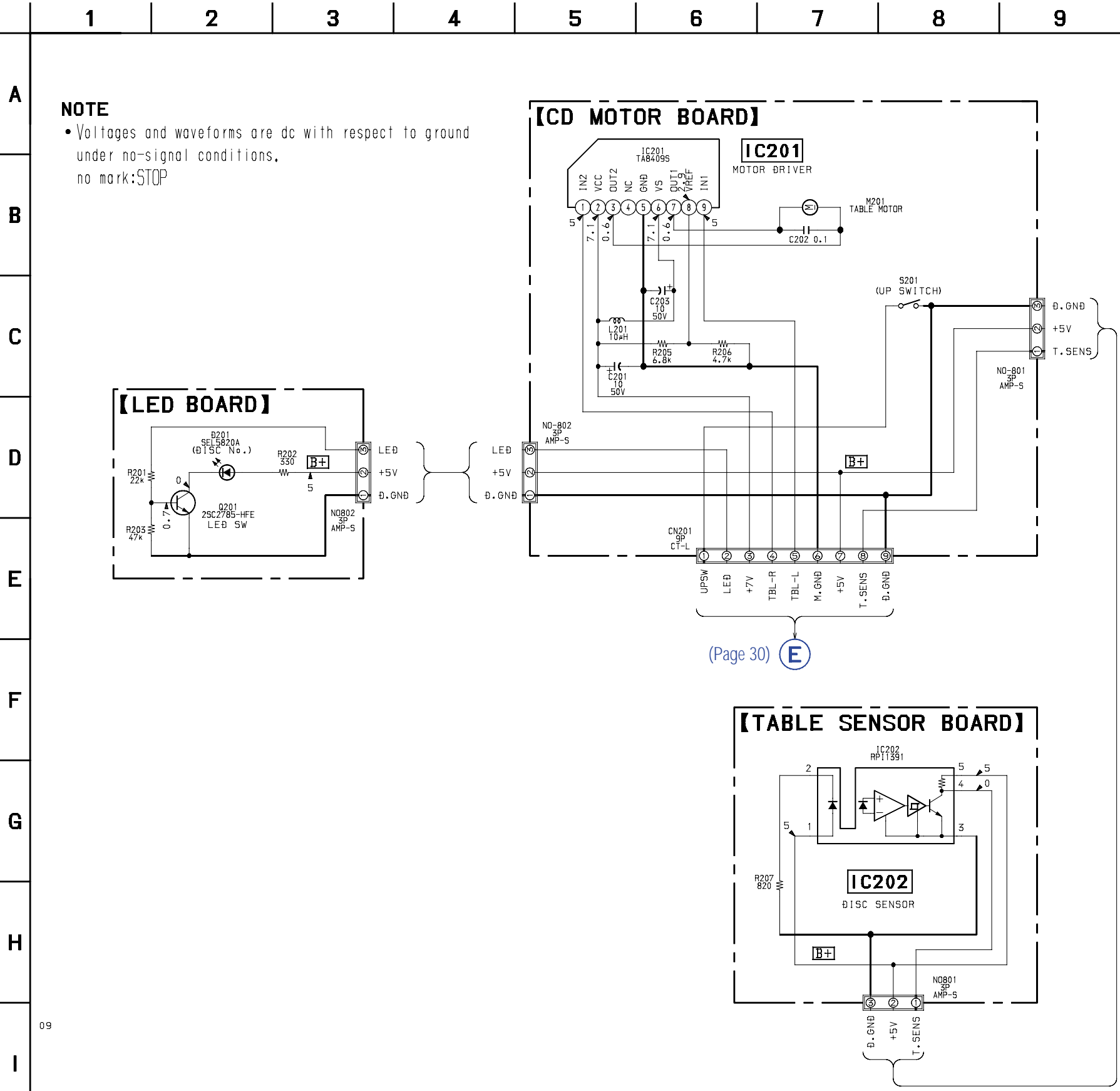


6-19. SCHEMATIC DIAGRAM – CD PANEL SECTION –

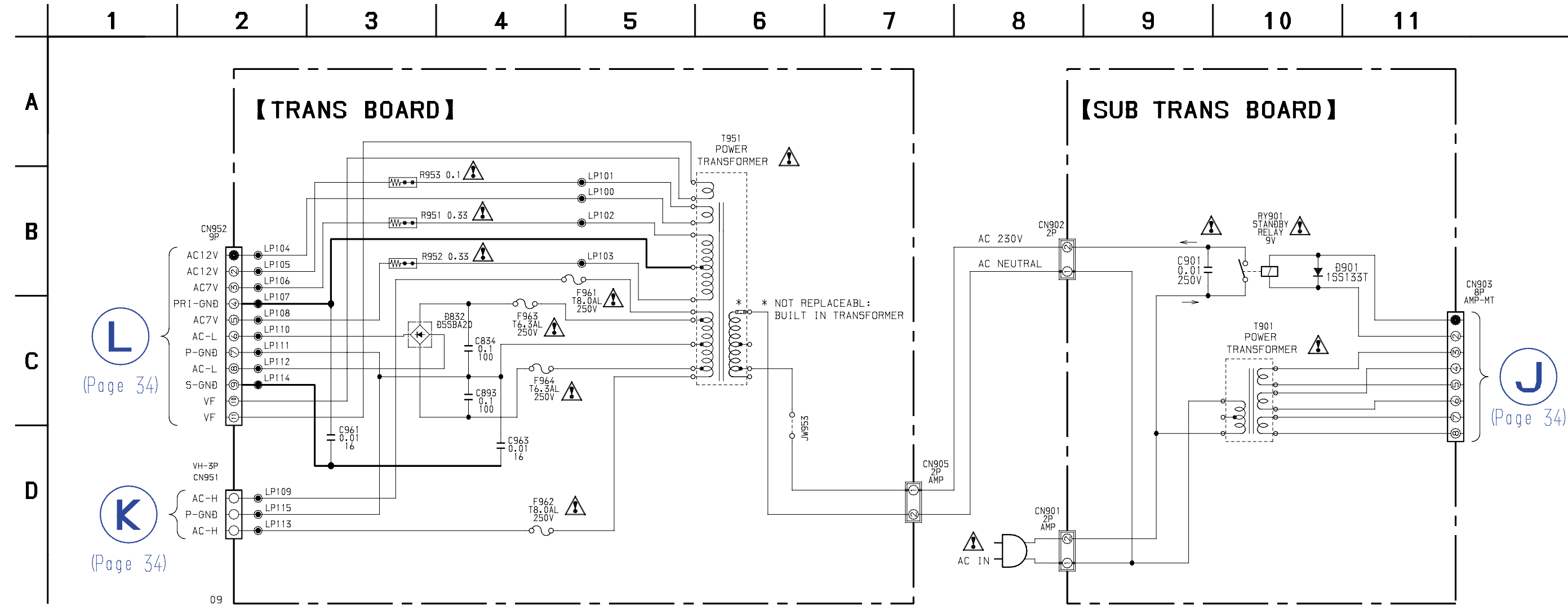




6-21. SCHEMATIC DIAGRAM – CD MOTOR SECTION –

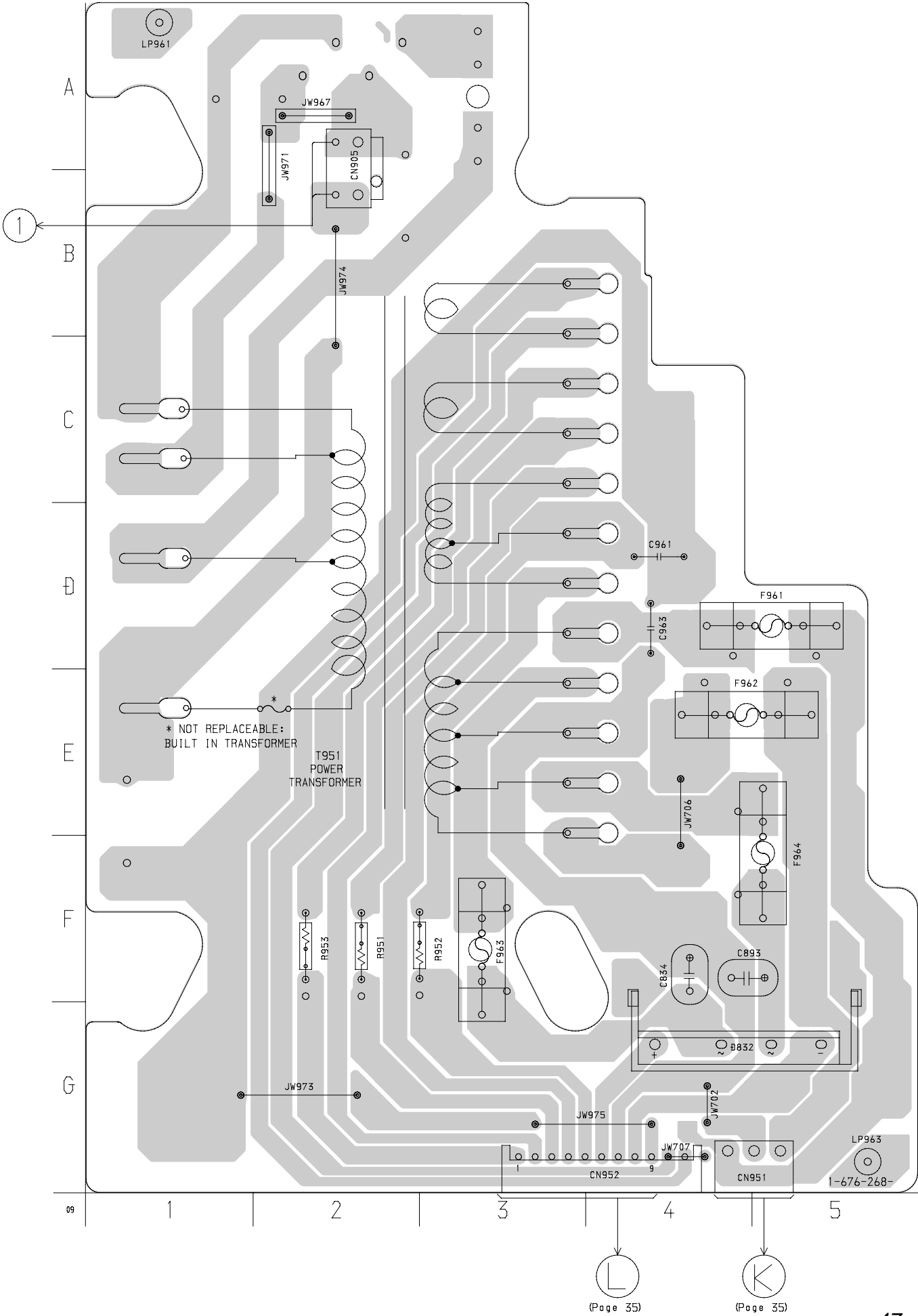


6-23. SCHEMATIC DIAGRAM – TRANS SECTION – (LX7 model)

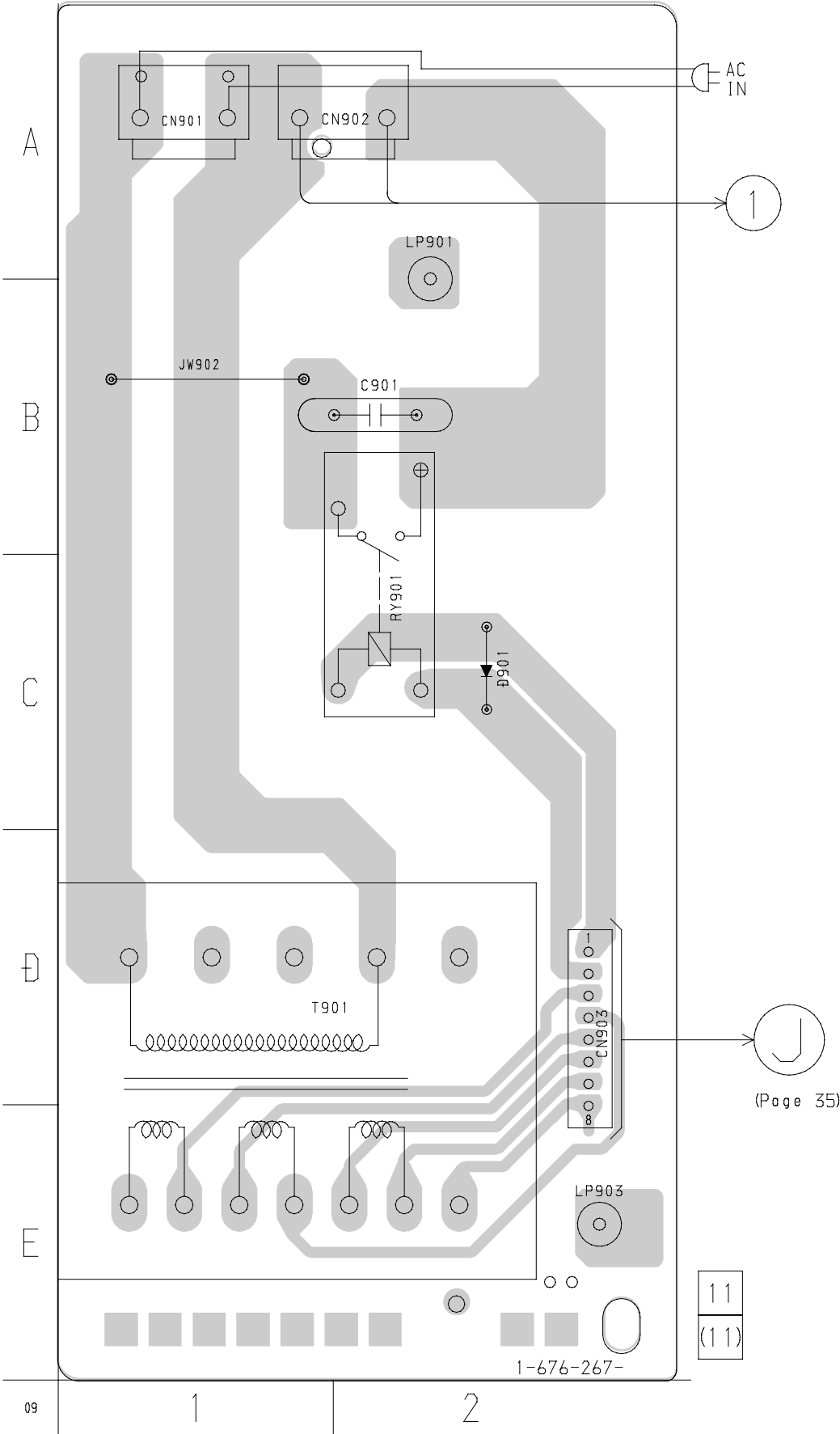


6-24. PRINTED WIRING BOARD – TRANS SECTION – (LX7 model)
• See page 17 for Circuit Boards Location.

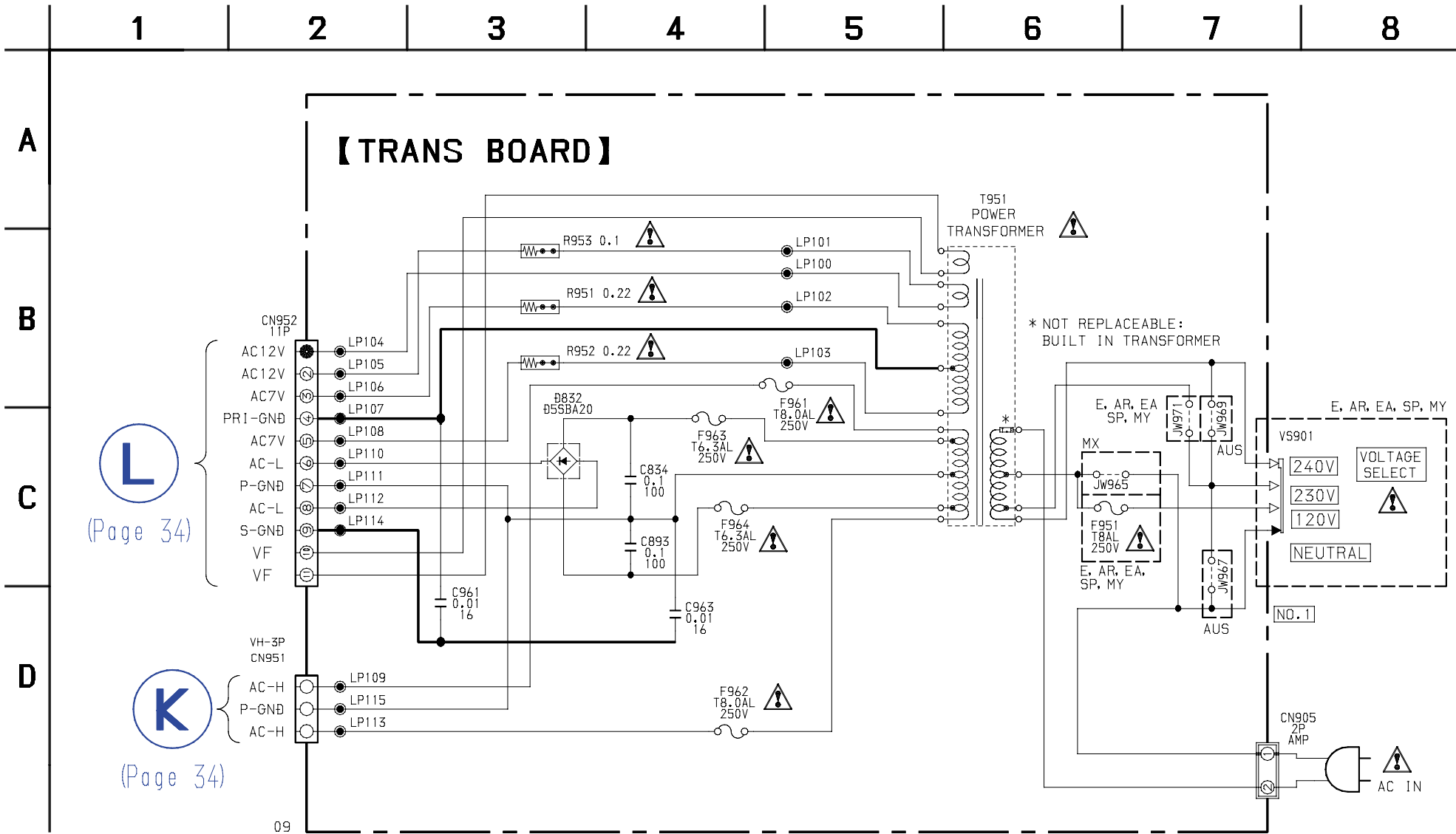
【TRANS BOARD】



【SUB-TRANS BOARD】



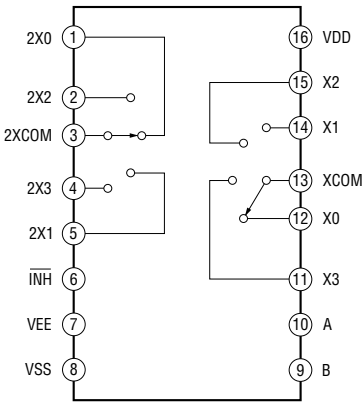
6-25. SCHEMATIC DIAGRAM – TRANS SECTION – (LX8 model)



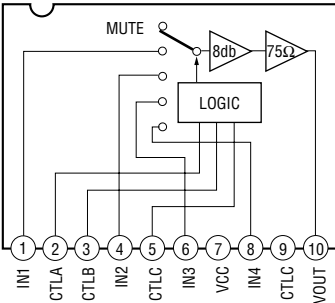
6-29. IC BLOCK DIAGRAMS

• MAIN (1/3) section

IC181 MC14052BF

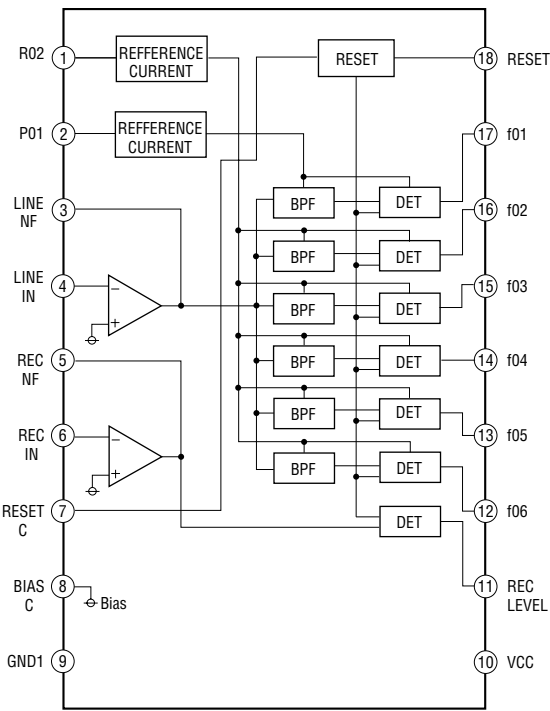


IC191 BA7615N



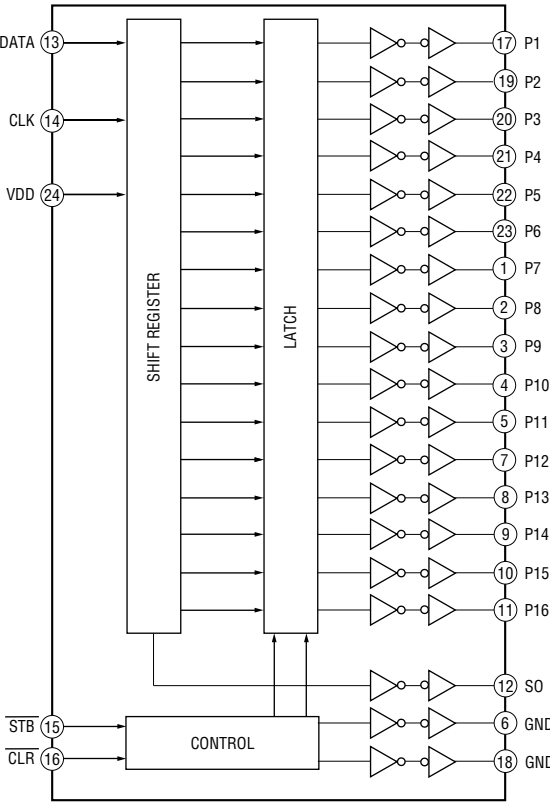
• PANEL FL section

IC603 BA3830F



• PANEL VR section

IC701 NJU3716L



6-30. IC PIN FUNCTIONS

• MAIN BOARD IC501 MAIN CONTROL (M306622 MA-A26FP)

Pin No.	Pin Name	I/O	Function
1	POWER	O	Power amp ON/OFF signal output
2	POWER	O	Power ON/OFF signal output
3	F-RELAY	O	Front speaker relay control output
4	REAR-RELAY	O	Rear speaker relay control output (Not used)
5	CD-POWER	O	CD power on signal output
6	LINE-MUTE	O	Line mute signal output
7	DBFB-H/L	O	DBFB H/L select signal output
8	–	–	Connected to ground
9	–	–	Connected to ground
10	XC-IN	I	X'tal (32.768 KHz) (SUB CLOCK)
11	XC-OUT	O	
12	RESET	I	System reset signal input
13	X-OUT	O	X'tal (16MHz) (MAIN SYSTEM CLOCK)
14	VSS	–	Ground
15	X-IN	I	X'tal (16MHz) (MAIN SYSTEM CLOCK)
16	VDD	–	Power supply (+5V)
17	NMI	I	Not used
18	WAKE UP	I	WAKE UP signal input
19	SCOR	I	CD Q-data request signal input
20	RDS-INT	I	RDS data interrupt input
21	RDS-DATA	I	RDS data interrupt input
22	AC-CUT	I	AC cut ON (L)/OFF (H) check
23	PL-CLK	O	Clock output to pro-logic (Not used)
24	PL-DATA	O	Data output to pro-logic (Not used)
25	PL-LAT	O	Latch signal output to pro-logic (Not used)
26	TIMER LED	O	Not used
27	PROTECT	I	Speaker protect signal input
28	V MUTE	O	Video mute signal output
29	IIC-CLK	O	I ² C SCL
30	IIC-DATA	O	I ² C SDA
31	–	–	Not used
32	SQ-DATA	I	Subcode Q data clock input (CD data)
33	SQ-CLK	I	Subcode Q data clock input (CD data clock)
34	SW-MODE	O	SW-MODE music/movie select signal output
35	CD-DATA	O	CD data output
36	H/P IN	I	Head phone detect
37	CD-CLK	O	CD clock output
38	493-LAT	O	Latch signal output for IC101 (M62493FP)
39	CLOCK-OUT	O	Clock out signal check
40	NO-USE	–	Not used
41	NO-USE	–	Not used
42	FL OFF	O	Fluorescent indicator tube filament on/off signal output
43	STBY RELAY	O	Main POWER on/off signal output
44	BASS FREQ	O	FREQ high/low signal output (Not used)
45	FUNC SEL 1	O	Function select signal output
46	FUNC SEL 0	O	Function select signal output
47	493-DATA	O	Data signal output for IC101 (M62493FP)
48	493-CLK	O	Clock signal output for IC101 (M62493FP)
49	ST-MUTE	O	Tuner mute signal output

Pin No.	Pin Name	I/O	Function
50	STEREO	I	Stereo detection for tuner
51	TUNED	I	Tuned detection for tuner
52	ST-CE	O	Tuner chip enable output
53	ST-DOUT	O	Tuner data output
54	ST-DIN	I	Tuner data input
55	ST-CLK	O	Tuner clock output
56	SENS	I	BD Condition signal input
57	HOLD	O	MODE signal output
58	XLT	O	CD latch signal output
59	XRST	O	CD reset signal output
60	DISC-SENS	I	Slit sensor of disc table input (Connected to ground)
61	T-SENS	I	CD table detection signal input
62	VDD	–	Power supply (+5V)
63	TBL-L	O	Table motor control output
64	VSS	I	Ground
65	TBL-R	O	Table motor control output
66	LOAD-OUT	O	Loading motor control signal output (Not used)
67	LOAD-IN	O	(not used)
68	ENC 3/UP-SW	I	Disc tray address detect encoder input
69	ENC 2/DISC-LED	O	Disc tray address LED drive signal output
70	ENC 1	I	(Connected to ground)
71	OUT-OPEN	O	(Connected to ground) Loading out detection signal output
72	B-TRG	O	B deck trigger motor control output
73	A-TRG	O	A deck trigger motor control output
74	CAP-M-COT2	O	Capstan motor REW/FWD/STOP signal output
75	CAP-M-COT1	O	Capstan motor REW/FWD/STOP signal output
76	CAP-M-H/L	O	Capstan motor High/Low speed select signal output
77	AMS-IN	I	AMS signal input
78	TC-MUTE	O	TC line mute ON/OFF selection output
79	R/PB/PAS	O	REC/PB/PASS selection output
80	NR-ON/OFF	O	DOLBY NR ON/OFF signal output
81	REC-MUTE	O	REC mute ON/OFF selection output
82	BIAS	O	Bias ON/OFF signal output
83	EQ-H/N	O	Equalizer High/Normal select output
84	PB-A/B	O	PB A deck/B deck select output
85	ALC	O	ALC ON/OFF output signal
86	B-PLAY-SW	I	B deck play detect
87	A-PLAY-SW	I	A deck play detect
88	A-HALF	I	A Deck half detector signal input
89	B-HALF	I	B Deck half detector signal input
90	B-SHUT	I	B Deck reel pulse detector
91	A-SHUT	I	A Deck reel pulse detector
92	SOFT-TEST	O	Software test port (Not used)
93	HP-MUTE	O	Head phone mute signal output
94	KEY/CD-ADJ	I	KEY (use the jig)/CD adjust point port
95	MODEL IN	I	MODEL input
96	AVSS	–	Analog ground
97	SPEC-IN	I	Specifications input
98	VREF	I	Analog reference voltage input
99	AVCC	–	Analog power supply (+5V)
100	TC-RELAY	O	REC/PB head selection output for IC602

• **PANEL FL BOARD IC601 DISPLAY CONTROL (TMP88CS76F-1A25)**

Pin No.	Pin Name	I/O	Function
1	SIRCS	I	Remote commander signal input
2	JOG A	I	Rotary encoder (S701) pulse input
3	LED SCK	O	LED clock signal output
4	LED LATCH	O	LED latch signal output
5	LED DAT	O	LED serial data output
6	LED POWER	–	Not used
7	LED SEL	O	LED select signal output
8	JOG B	I	Rotary encoder (S701) pulse input
9	VOLUME A	I	Rotary encoder (S701) pulse input
10	VOLUME B	I	
11 to 15	KEY 0 to KEY 4	I	Key input
16 to 20	BPF 0 to BPF 4	I	Rec level signal input
21	ALL BAND	O	Rec level signal output for auto DBDF
22	WAKE UP	O	Gradation right/WAKE UP signal output
23	Vss	–	Ground
24	VAss	–	
25	VAref	I	Analog reference voltage input
26	VDD	–	Power supply (+5V)
27 to 40	GR 3 to GR 16	O	FL gride signal output
41	VDD VFT	–	Power supply (+5V) for VFT
42, 43	GR 1, GR 2	O	FL gride signal output
44	SEG 0	O	FL segment signal output (Not used)
45 to 67	SEG 1 to SEG 23	O	FL segment signal output
68	Vkk	–	Power supply (-35V) for FL segment signal output
69	Vdd	–	Power supply (+5V)
70	X in	I	X'tal (12.5MHz)
71	Vss	–	Ground
72	X out	O	X'tal (12.5MHz)
73	RESET	I	Reset signal input from main controller
74	DAILY LED	O	LED driver output
75	REC LED	O	
76	TEST	I	Connected ground
77	LED-ECO	O	LED driver output
78	I ² C DATA	I	I ² C SDA input from master controller
79	I ² C CLK	I	I ² C SCL input from master controller
80	D-SW	I	Door switch signal input

SECTION 7 EXPLODED VIEWS

NOTE:

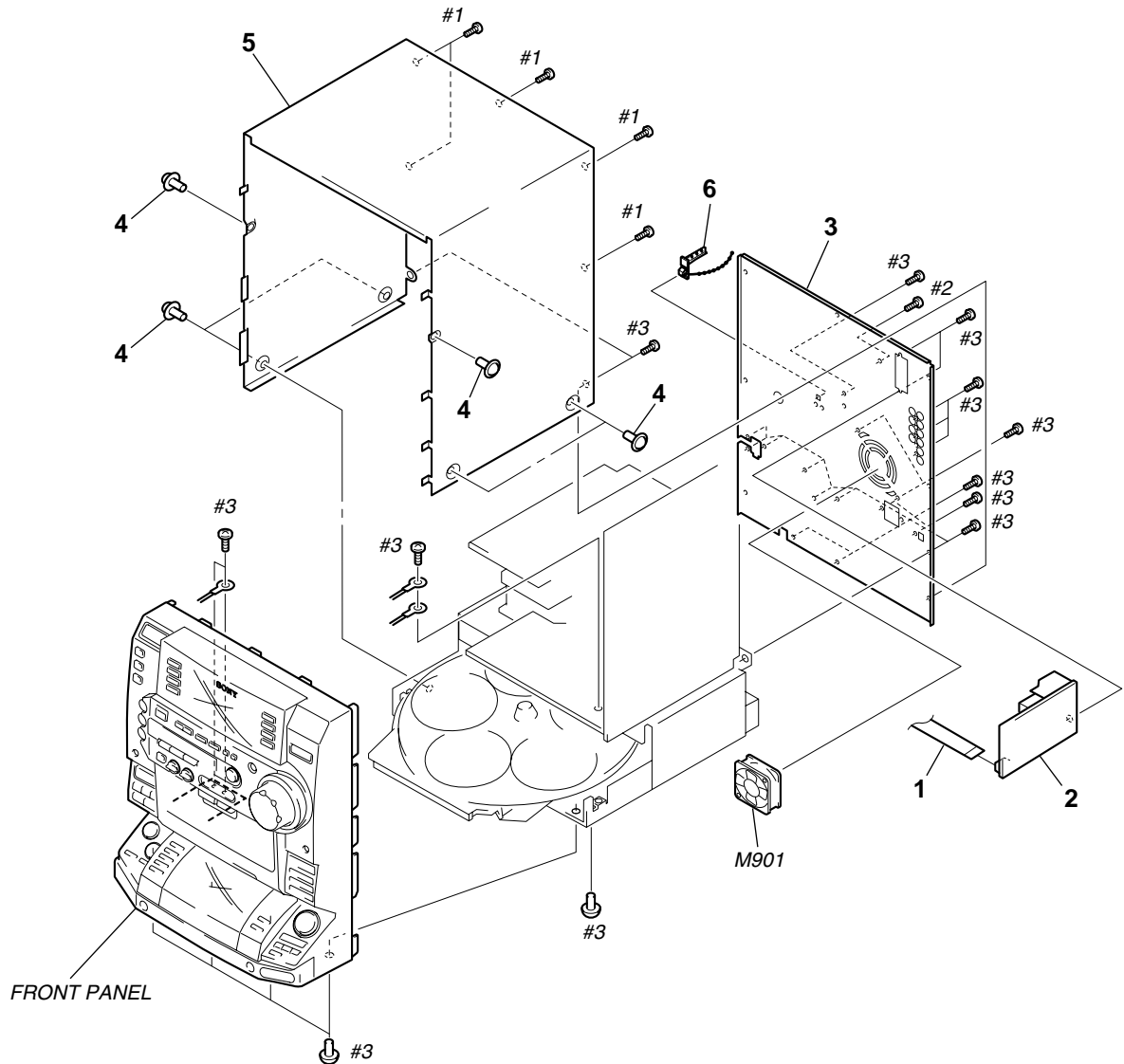
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

Abbreviation

SP	: Singapore model
MX	: Mexican model
AUS	: Australian model
EA	: Saudi Arabia model
AR	: Argentine model
MY	: Malaysia model

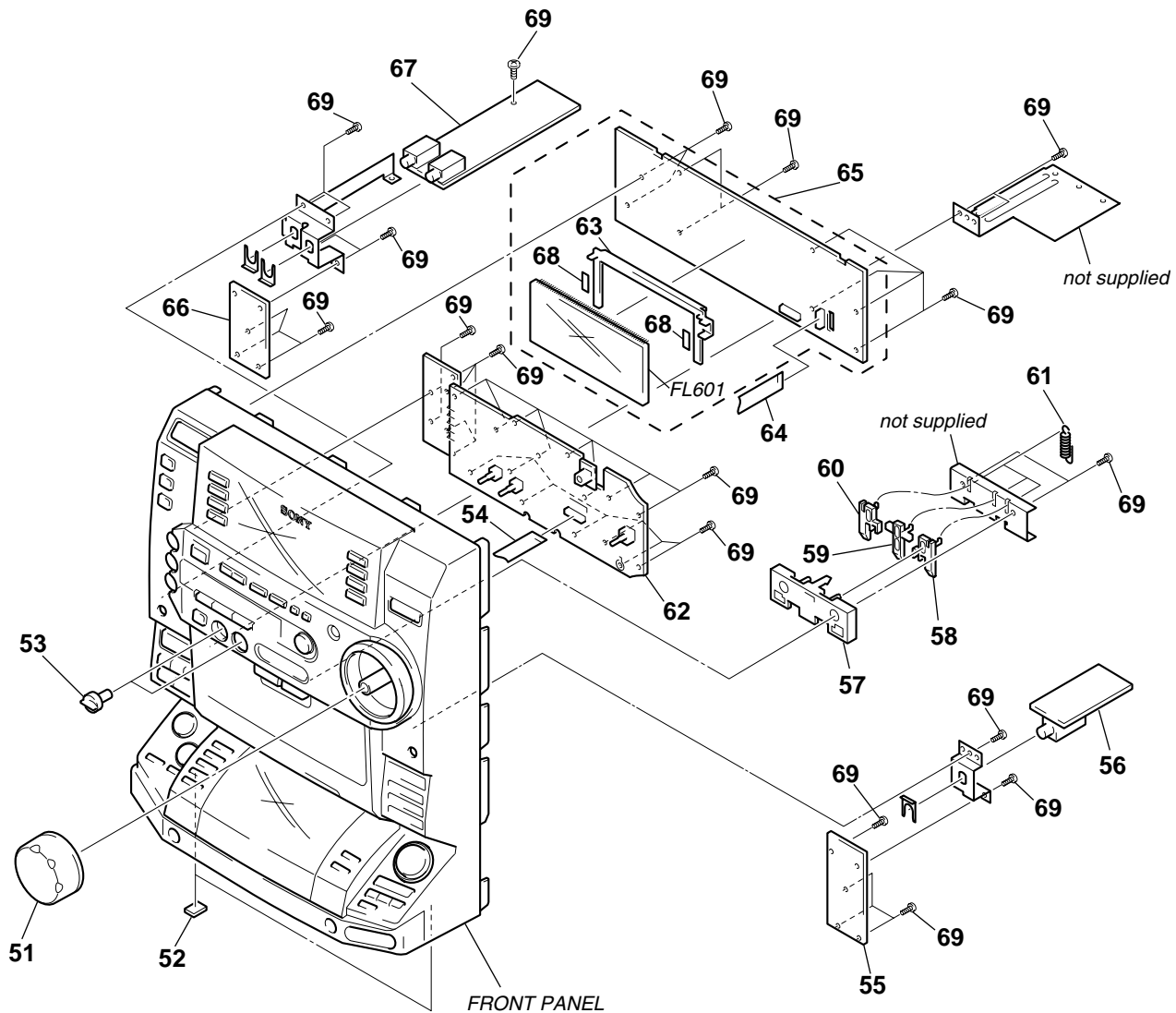
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

7-1. CASE AND BACK PANEL SECTION



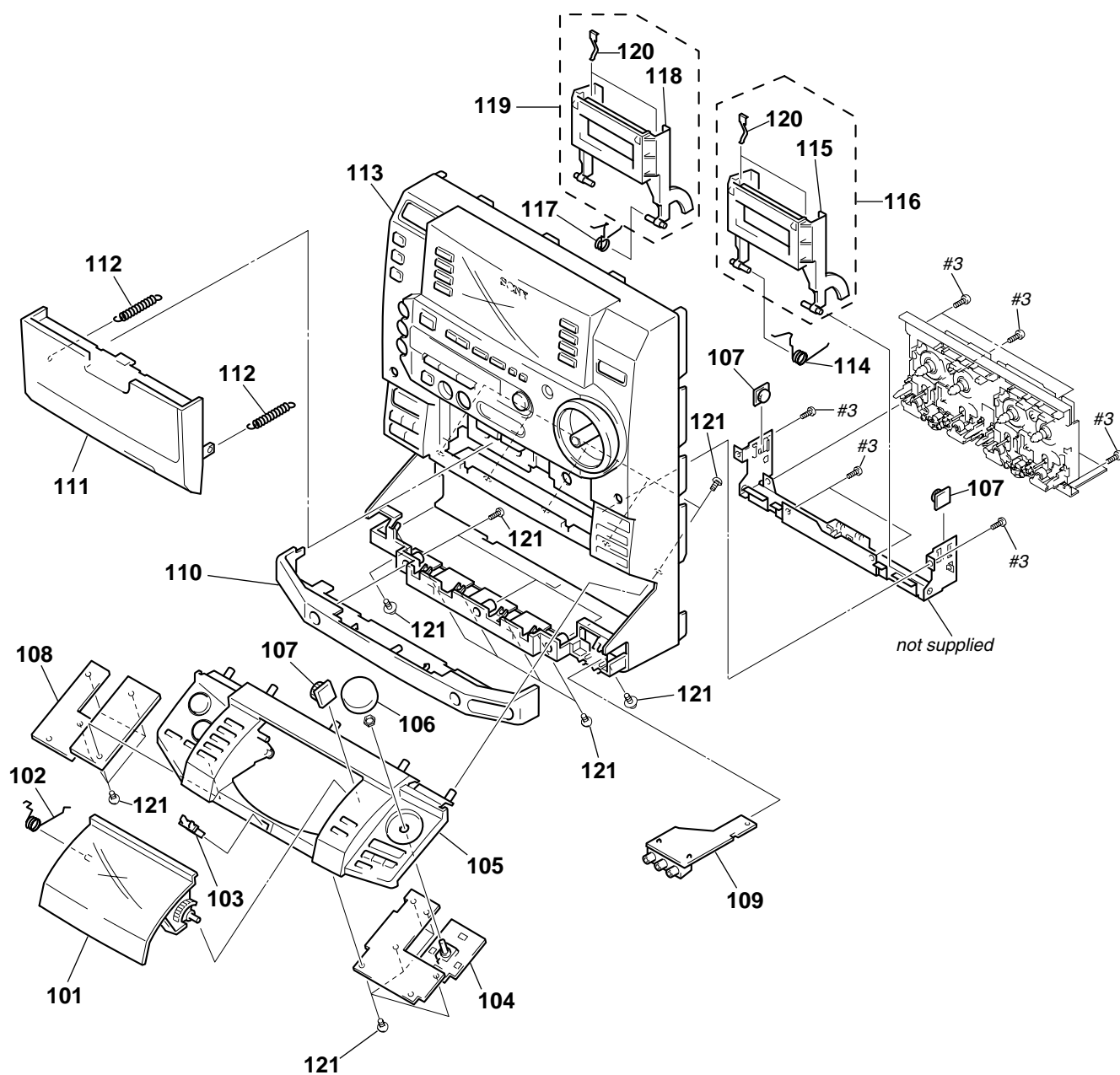
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-769-977-11	WIRE (FLAT TYPE)(13 CORE)(LX8)		3	4-225-529-31	PANEL, BACK (LX8:SP,MY)	
1	1-773-009-11	WIRE (FLAT TYPE)(15 CORE)(LX7)		3	4-225-529-41	PANEL, BACK (LX8:MX)	
2	1-693-484-11	TUNER (FM/AM)(LX8:E)		3	4-225-529-51	PANEL, BACK (LX8:AUS)	
2	1-693-488-11	TUNER (FM/AM)(LX8:AR, MX, EA, SP, MY, AUS)		3	4-225-529-61	PANEL, BACK (LX8:EA)	
2	1-693-490-11	TUNER (FM/AM)(LX7)		4	3-363-099-01	SCREW (CASE 3 TP2)	
3	4-225-529-11	PANEL, BACK (LX7)		5	4-214-777-51	CASE	
3	4-225-529-21	PANEL, BACK (LX8:E, AR)		6	4-956-370-12	BAND, PLUG FIXED (LX7:UK/LX8:AUS)	
				M901	1-763-072-11	FAN, D.C.	

7-2. FRONT PANEL SECTION 1



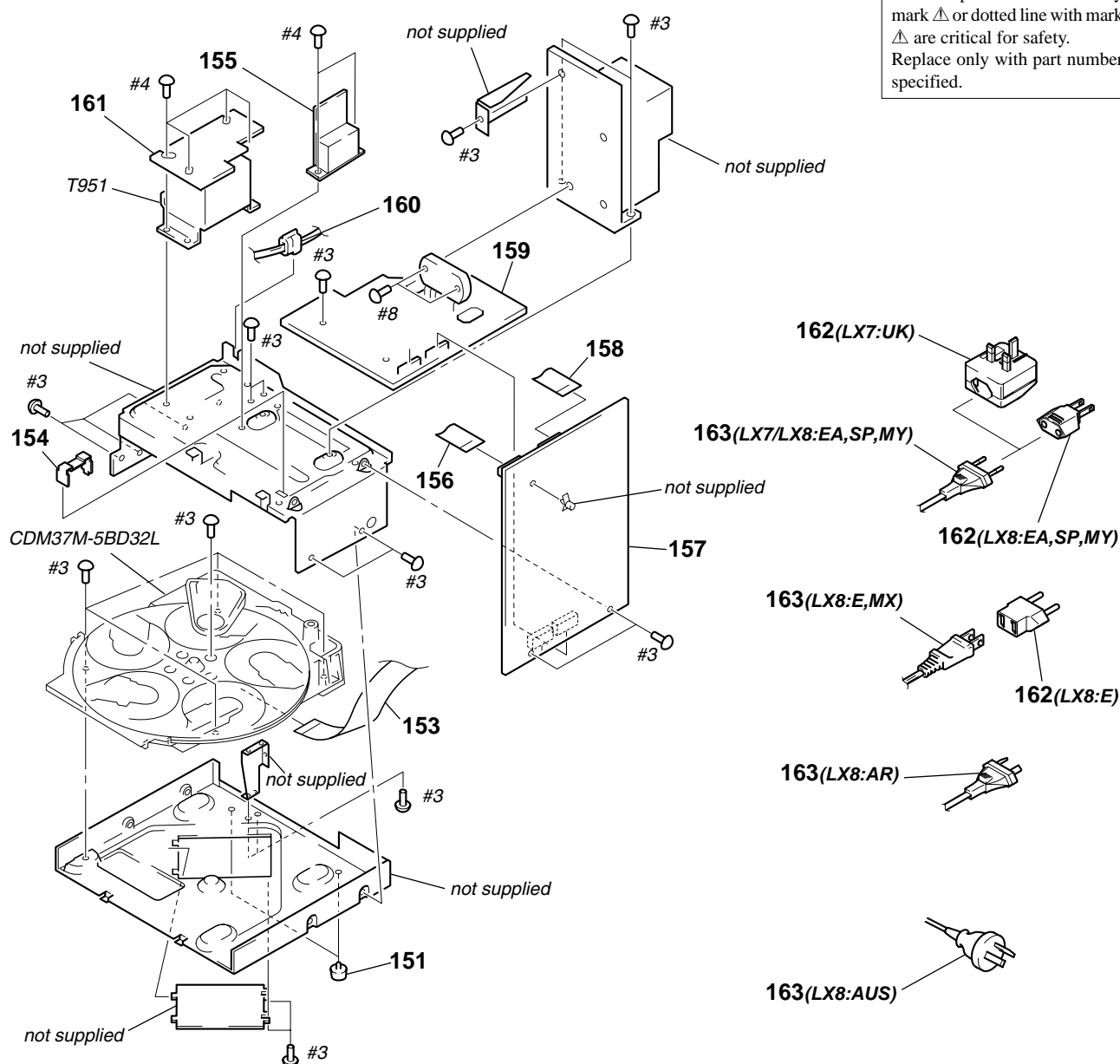
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-225-501-01	KNOB (VOL)		62	A-4428-168-A	PANEL-VR BOARD, COMPLETE (LX8)	
52	4-948-236-21	CUSHION (107)		62	A-4428-198-A	PANEL-VR BOARD, COMPLETE (LX7)	
53	4-225-502-01	KNOB (MIC)		63	4-225-511-01	HOLDER (FL)	
54	1-773-150-11	WIRE (FLAT TYPE)(21 CORE)		64	1-751-688-11	WIRE (FLAT TYPE)(13 CORE)	
55	1-676-275-11	TC-B BOARD		65	A-4428-215-A	PANEL-FL BOARD, COMPLETE	
56	1-676-281-11	HEADPHONE BOARD		66	1-676-274-11	TC-A BOARD	
57	4-226-883-01	COVER (EJECT)		67	A-4428-180-A	MIC BOARD, COMPLETE	
58	4-226-881-01	LEVER (EJECT-B)		* 68	4-949-935-81	CUSHION (FL)	
59	4-226-882-01	LEVER (EJECT-C)		69	4-951-620-01	SCREW (2.6x8),+BVTP	
60	4-226-880-01	LEVER (EJECT-A)					
61	4-226-889-01	SPRING (LEVER)		FL601	1-517-940-11	INDICATOR TUBE, FLUORESCENT	

7-3. FRONT PANEL SECTION 2



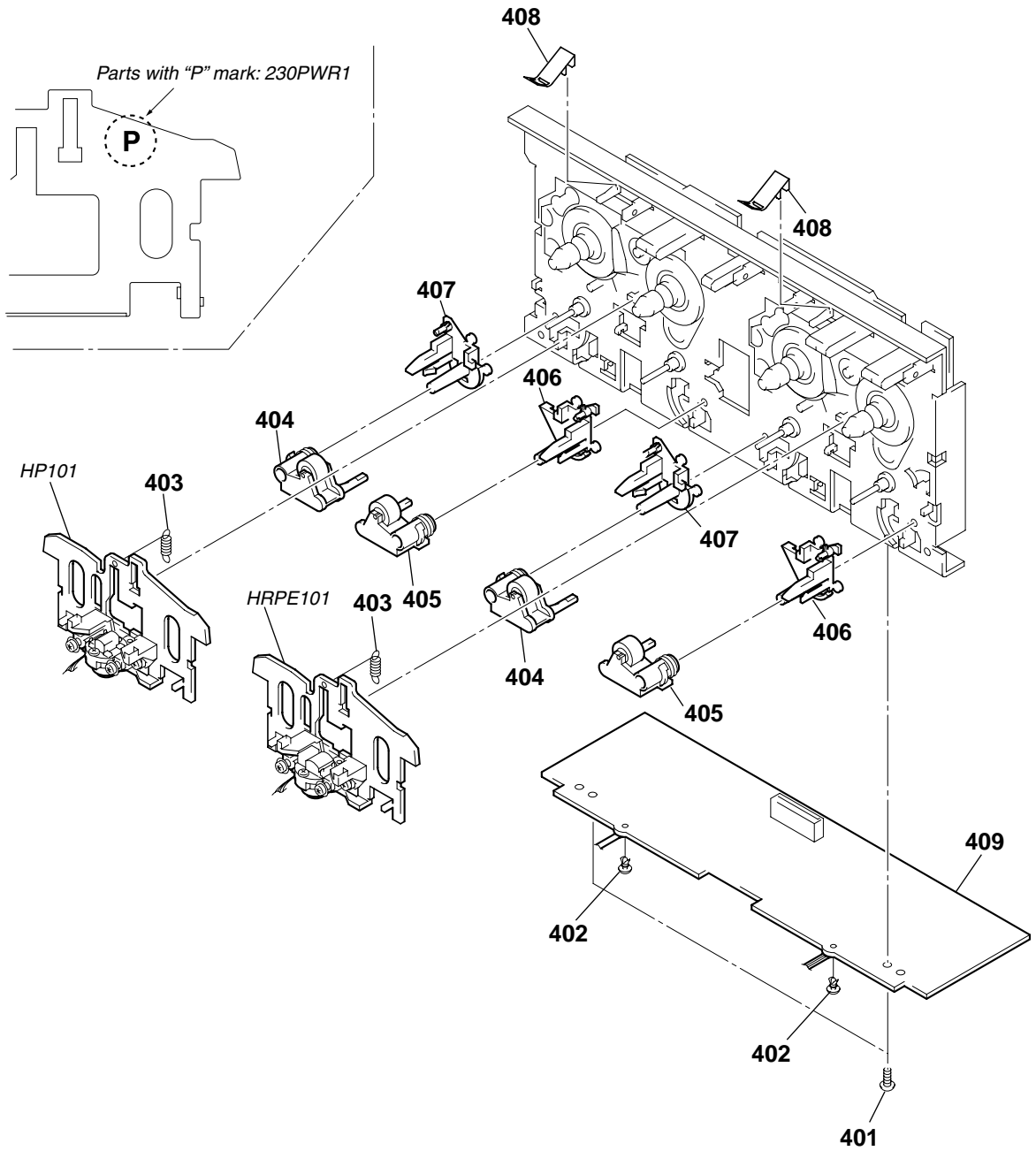
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4952-466-1	LID (CD) ASSY		111	X-4952-504-1	LID (TC) ASSY	
102	4-225-524-01	SPRING (CD)		112	4-225-521-01	SPRING (TC-LID)	
103	4-040-472-01	LATCH, D.C.		113	X-4952-526-1	PANEL ASSY, FRONT (LX7)	
104	A-4428-177-A	CD-R BOARD, COMPLETE		113	X-4952-625-1	PANEL ASSY, FRONT (LX8)	
105	X-4952-462-1	PANEL (CD) ASSY, SUB					
106	4-225-503-01	KNOB (CD)		114	4-225-523-01	SPRING (DECK-B)	
107	4-224-104-21	DAMPER		115	4-225-510-01	HOLDER (DECK-B)	
108	A-4428-176-A	CD-L BOARD, COMPLETE		116	X-4952-465-1	HOLDER (DECK-B) ASSY	
109	1-676-276-11	FRONT INPUT BOARD		117	4-225-522-01	SPRING (DECK-A)	
110	4-225-516-41	PLATE, ORNAMENTAL (LX8)		118	4-225-509-01	HOLDER (DECK-A)	
110	4-225-516-91	PLATE, ORNAMENTAL (LX7)		119	X-4952-464-1	HOLDER (DECK-A) ASSY	
				120	4-959-229-11	DETENT, CASSETTE	
				121	4-951-620-01	SCREW (2.6x8), +BVTP	

7-4. CHASSIS SECTION



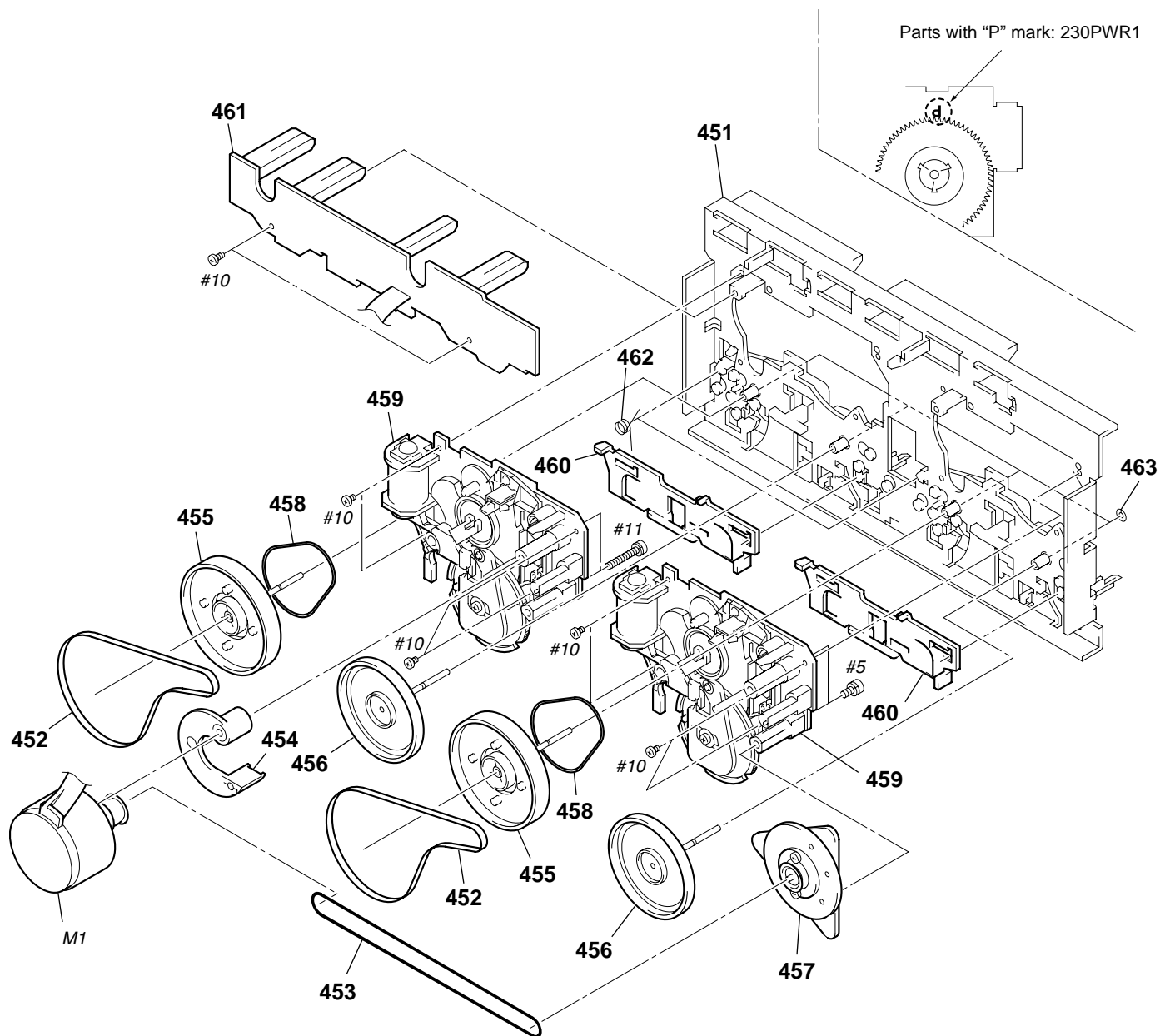
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-4941-228-1	FOOT (F22125H-M)		160	3-703-244-00	BUSHING (FBS001), CORD (LX7/LX8:EA,AUS)	
153	1-790-287-11	WIRE (FLAT TYPE)(19 CORE)		160	4-966-266-01	BUSHING (S)(FBS002), CORD (LX8:E,AR,MX,SP,MY)	
* 154	4-988-533-01	HOLDER, PWB		161	1-676-267-11	TRANS BOARD	
155	1-676-268-11	SUB TRANS BOARD (LX7)		\triangle 162	1-569-007-11	ADAPTOR, CONVERSION 2P (LX8:E)	
156	1-773-056-11	WIRE (FLAT TYPE)(17 CORE)		\triangle 162	1-569-008-21	ADAPTOR, CONVERSION 2P (LX8:EA,SP,MY)	
157	A-4428-224-A	MAIN BOARD, COMPLETE (LX7)		\triangle 162	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (LX7:UK)	
157	A-4428-229-A	MAIN BOARD, COMPLETE (LX8:E,AR)		\triangle 163	1-696-847-11	CORD, POWER (LX8:AUS)	
157	A-4428-743-A	MAIN BOARD, COMPLETE (LX8:MX)		\triangle 163	1-777-071-51	CORD, POWER (LX7/LX8:EA,SP,MY)	
157	A-4428-745-A	MAIN BOARD, COMPLETE (LX8:AUS)		\triangle 163	1-783-941-11	CORD, POWER (LX8:AR)	
157	A-4428-750-A	MAIN BOARD, COMPLETE (LX8:EA,SP,MY)		\triangle 163	1-791-901-11	CORD, POWER (LX8:E,MX)	
158	1-773-032-11	WIRE (FLAT TYPE)(15 CORE)		\triangle T951	1-435-245-11	TRANSFORMER, POWER (LX7)	
159	A-4428-225-A	PA BOARD, COMPLETE (LX7)		\triangle T951	1-435-246-11	TRANSFORMER, POWER (LX8)	
159	A-4428-230-A	PA BOARD, COMPLETE (LX8:E,AR,MX)					
159	A-4428-748-A	PA BOARD, COMPLETE (LX8:EA,SP,MY,AUS)					

7-5.TC MECHANISM SECTION 1 (TCM230PWR1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		407	3-017-366-01	BASE (PINCH LEVER REV)	
402	3-911-116-42	RIVET, PUSH		408	3-026-892-01	SPRING (CASSETTE), LEAF	
403	3-016-574-01	SPRING (HEAD), TENSION		* 409	A-2007-791-A	AUDIO BOARD, COMPLETE	
404	X-3374-156-4	PINCH LEVER (REV) ASSY		HP101	A-2056-683-B	DECK (A) ASSY, HEAD (230PWR1)	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY					
406	3-017-365-01	BASE (PINCH LEVER FWD)		HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD (230PWR1)	

7-6. TC MECHANISM SECTION 2 (TCM230PWR1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 451	X-3374-214-1	CASSIS ASSY, MAIN		458	3-024-405-01	BELT (FR)	
452	3-016-570-01	BELT (CAPSTAN)		459	A-2004-630-A	MECHANICAL BLOCK ASSY (230PWR1)	
453	3-016-569-01	BELT (TENSION)		460	3-016-566-01	SLIDER, REVERSE	
454	3-016-568-01	BRACKET (MOTOR)		* 461	A-2007-800-A	LEAF SW BOARD, COMPLETE	
455	X-3374-075-5	FLYWHEEL (FWD) ASSY		462	3-016-575-01	SPRING, TORSION	
456	X-3374-076-1	FLYWHEEL (REV) ASSY		463	3-019-208-01	WASHER, STOPPER	
457	X-3374-157-1	PULLEY ASSY, TENSION		M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

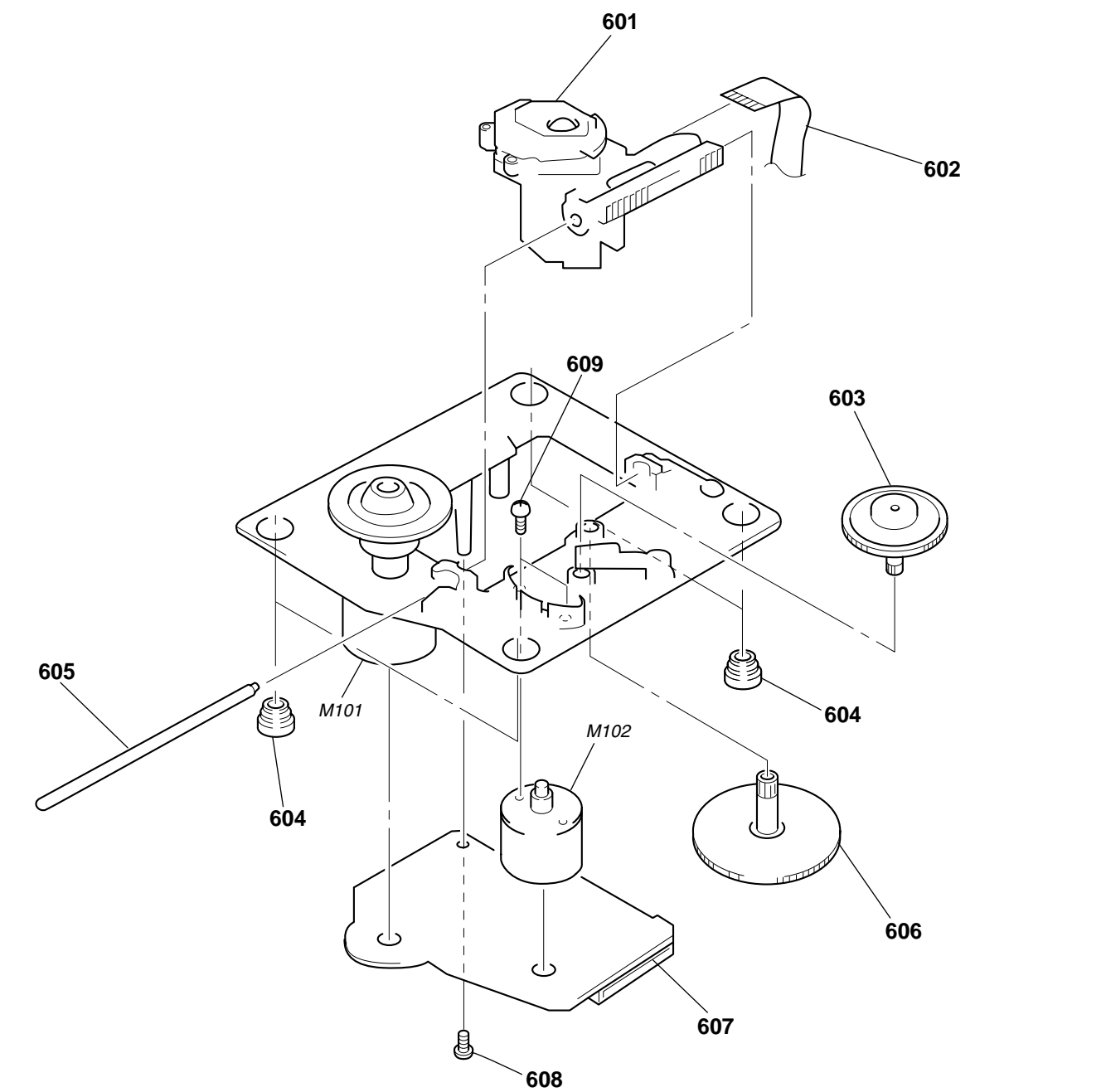
This diagram illustrates the exploded view of a mechanical assembly. The components are labeled as follows:

- 501**: Screws used for securing the top plate and the base plate.
- 502**: Washers used for the top plate and the base plate.
- 503**: A small cylindrical component, likely a bush or spacer.
- 504**: A small cylindrical component, likely a bush or spacer.
- 505**: A small cylindrical component, likely a bush or spacer.
- 506**: A small cylindrical component, likely a bush or spacer.
- 507**: A small cylindrical component, likely a bush or spacer.
- 508**: A circular plate with four mounting holes.
- 509**: A circular plate with eight mounting holes.
- 510**: A small cylindrical component, likely a bush or spacer.
- 511**: A small cylindrical component, likely a bush or spacer.
- 512**: A small cylindrical component, likely a bush or spacer.
- 513**: A small cylindrical component, likely a bush or spacer.
- 514**: A small cylindrical component, likely a bush or spacer.
- 515**: A small cylindrical component, likely a bush or spacer.
- 516**: A small cylindrical component, likely a bush or spacer.
- 517**: A small cylindrical component, likely a bush or spacer.
- 518**: A small cylindrical component, likely a bush or spacer.
- 519**: A small cylindrical component, likely a bush or spacer.
- 520**: A small cylindrical component, likely a bush or spacer.
- 521**: A small cylindrical component, likely a bush or spacer.
- 522**: A small cylindrical component, likely a bush or spacer.
- 523**: A small cylindrical component, likely a bush or spacer.
- 524**: A small cylindrical component, likely a bush or spacer.
- 525**: A small cylindrical component, likely a bush or spacer.

Additional labels include **M201** for a specific part and **#3** for screws. Dashed boxes indicate components that are **not supplied**.

59

7-8. BASE UNIT SECTION (BU-5BD32L)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
\triangle 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP		* 607	A-4724-486-A	BD BOARD, COMPLETE	
602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		608	4-951-620-01	SCREW (2.6X8), +BVTP	
603	4-917-567-21	GEAR (M)		609	3-713-786-51	SCREW +P 2X3	
604	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
605	4-917-565-01	SHAFT, SLED					
606	4-917-564-01	GEAR (P), FLATNESS		M102	X-4917-504-1	MOTOR ASSY (SLED)	

SECTION 8 ELECTRICAL PARTS LIST

AUDIO

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
SP : Singapore model
MX : Mexican model
AUS : Australian model
EA : Saudi Arabia model
AR : Argentine model
MY : Malaysia model

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
	A-2007-799-A	AUDIO BOARD, COMPLETE	*****				< IC >		
		< CAPACITOR >			IC601	8-759-111-44	IC uPC4570C-1		
					IC602	8-759-143-54	IC uPC1330HA		
					IC611	8-759-111-44	IC uPC4570C-1		
							< COIL >		
C301	1-162-289-31	CERAMIC	390PF	10.00% 50V	L331	1-410-780-11	INDUCTOR	27MH	
C302	1-126-968-11	ELECT	100uF	20.00% 6.3V	L431	1-410-780-11	INDUCTOR	27MH	
C303	1-162-282-31	CERAMIC	100PF	10% 50V	L601	1-414-193-41	INDUCTOR	220uH	
C304	1-130-483-00	MYLAR	0.01uF	5% 50V	L602	1-414-193-41	INDUCTOR	220uH	
C305	1-107-715-11	ELECT	22uF	20.00% 16V			< TRANSISTOR >		
					Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK	
C311	1-162-289-31	CERAMIC	390PF	10.00% 50V	Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK	
C313	1-162-282-31	CERAMIC	100PF	10% 50V	Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP	
C314	1-130-487-00	MYLAR	0.022uF	5% 50V			< RESISTOR >		
C315	1-126-233-11	ELECT	22uF	20% 50V	R301	1-247-881-00	CARBON	120K	5% 1/4W
C331	1-137-427-11	MYLAR	120PF	5.00% 50V	R302	1-247-815-91	CARBON	220	5% 1/4W
					R303	1-247-863-91	CARBON	22K	5% 1/4W
C332	1-162-288-31	CERAMIC	330PF	10% 50V	R304	1-247-889-00	CARBON	270K	5% 1/4W
C333	1-162-209-31	CERAMIC	27PF	5.00% 50V	R305	1-247-858-11	CARBON	13K	5% 1/4W
C401	1-162-289-31	CERAMIC	390PF	10.00% 50V					
C402	1-126-968-11	ELECT	100uF	20.00% 6.3V	R311	1-247-881-00	CARBON	120K	5% 1/4W
C403	1-162-282-31	CERAMIC	100PF	10% 50V	R312	1-247-807-31	CARBON	100	5% 1/4W
					R314	1-247-882-11	CARBON	130K	5% 1/4W
C404	1-130-483-00	MYLAR	0.01uF	5% 50V	R315	1-247-850-11	CARBON	6.2K	5% 1/4W
C405	1-107-715-11	ELECT	22uF	20.00% 16V	R331	1-249-430-11	CARBON	12K	5% 1/4W
C411	1-162-289-31	CERAMIC	390PF	10.00% 50V					
C413	1-162-282-31	CERAMIC	100PF	10% 50V	R401	1-247-881-00	CARBON	120K	5% 1/4W
C414	1-130-487-00	MYLAR	0.022uF	5% 50V	R402	1-247-815-91	CARBON	220	5% 1/4W
					R403	1-247-863-91	CARBON	22K	5% 1/4W
C415	1-126-233-11	ELECT	22uF	20% 50V	R404	1-247-889-00	CARBON	270K	5% 1/4W
C431	1-137-427-11	MYLAR	120PF	5.00% 50V	R405	1-247-858-11	CARBON	13K	5% 1/4W
C432	1-162-288-31	CERAMIC	330PF	10% 50V					
C433	1-162-209-31	CERAMIC	27PF	5.00% 50V	R411	1-247-881-00	CARBON	120K	5% 1/4W
C601	1-104-396-11	ELECT	10uF	20.00% 16V	R412	1-247-807-31	CARBON	100	5% 1/4W
					R414	1-247-882-11	CARBON	130K	5% 1/4W
C602	1-104-396-11	ELECT	10uF	20.00% 16V	R415	1-247-850-11	CARBON	6.2K	5% 1/4W
C611	1-104-396-11	ELECT	10uF	20.00% 16V	R431	1-249-430-11	CARBON	12K	5% 1/4W
C612	1-104-396-11	ELECT	10uF	20.00% 16V					
C621	1-137-150-11	FILM	0.01uF	5.00% 100V	R601	1-247-815-91	CARBON	220	5% 1/4W
C622	1-126-961-11	ELECT	2.2uF	20.00% 50V	R602	1-247-815-91	CARBON	220	5% 1/4W
					R608	1-247-815-91	CARBON	220	5% 1/4W
C623	1-136-155-00	FILM	0.015uF	5% 50V	R609	1-247-863-91	CARBON	22K	5% 1/4W
C624	1-130-481-00	MYLAR	0.0068uF	5% 50V	R611	1-247-815-91	CARBON	220	5% 1/4W
C625	1-130-481-00	MYLAR	0.0068uF	5% 50V					
C627	1-124-903-11	ELECT	1uF	20.00% 50V	R612	1-247-815-91	CARBON	220	5% 1/4W
C628	1-136-153-00	FILM	0.01uF	5% 50V					
C642	1-104-664-11	ELECT	47uF	20.00% 16V					
		< CONNECTOR >							
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD)15P							

Ref. No.	Part No.	Description	Remark		
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W

< VARIABLE RESISTOR >

RV301	1-238-598-11	RES, ADJ, CARBON 2.2K
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K
RV341	1-241-768-11	RES, ADJ, CARBON 220K
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K

RV441	1-241-768-11	RES, ADJ, CARBON 220K
-------	--------------	-----------------------

< TRANSFORMER >

T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION
------	--------------	-------------------------------

A-4724-486-A BD BOARD, COMPLETE

< CAPACITOR >

C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V

C114	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

C119	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10.00%	16V

C125	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-128-065-11	ELECT CHIP	68uF	20.00%	10V
C128	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V

C130	1-164-346-11	CERAMIC CHIP	1uF		16V
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V
C133	1-164-346-11	CERAMIC CHIP	1uF		16V
C140	1-164-346-11	CERAMIC CHIP	1uF		16V
C141	1-164-346-11	CERAMIC CHIP	1uF		16V

C143	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C153	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10.00%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V

Ref. No.	Part No.	Description	Remark		
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V

C165	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C167	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C168	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V

C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V

< CONNECTOR >

CN101	1-778-874-11	CONNECTOR,FFC (LIF (NON-ZIF))19P
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P

< FERRITE BEAD >

FB101	1-500-445-21	FERRITE	0UH
FB103	1-500-445-21	FERRITE	0UH

< IC >

IC101	8-752-386-85	IC CXD2587Q
IC102	8-759-549-28	IC BA5974FP-E2
IC103	8-752-085-51	IC CXA2568M-T6

< TRANSISTOR >

Q101	8-729-010-08	TRANSISTOR MSB710-RT1
------	--------------	-----------------------

< RESISTOR >

R101	1-216-077-91	RES-CHIP	15K	5%	1/10W
R102	1-216-097-91	RES-CHIP	100K	5%	1/10W
R103	1-216-077-91	RES-CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W

R106	1-216-049-91	RES-CHIP	1K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-121-91	RES-CHIP	1M	5%	1/10W
R110	1-216-025-91	RES-CHIP	100	5%	1/10W

R111	1-216-121-91	RES-CHIP	1M	5%	1/10W
R113	1-216-121-91	RES-CHIP	1M	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-001-00	METAL CHIP	10	5%	1/10W
R117	1-216-049-91	RES-CHIP	1K	5%	1/10W

R119	1-216-041-00	METAL CHIP	470	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-91	RES-CHIP	100K	5%	1/10W
R131	1-216-033-00	METAL CHIP	220	5%	1/10W
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W

R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-001-00	METAL CHIP	10	5%	1/10W
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W

R159	1-216-101-00	METAL CHIP	150K	5%	1/10W
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W

BD

CD MOTOR

CD-L

CD-R

Ref. No.	Part No.	Description			Remark
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-078-00	RES-CHIP	16K	5%	1/10W
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W
R173	1-216-077-91	RES-CHIP	15K	5%	1/10W
R181	1-216-078-00	RES-CHIP	16K	5%	1/10W
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W
R183	1-216-077-91	RES-CHIP	15K	5%	1/10W
< NETWORK >					
RN101	1-233-576-11	RES, CHIP NETWORK 100			
RN102	1-233-576-11	RES, CHIP NETWORK 100			
< SWITCH >					
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)			
< VIBRATOR >					
X101	1-767-408-21	VIBRATOR, CRYSTAL 16.9344MHz			

*	A-4673-765-A	CD MOTOR BOARD, COMPLETE			

*	4-980-385-01	HOLDER (SW)			
< CAPACITOR >					
C201	1-126-964-11	ELECT	10uF	20.00%	50V
C202	1-164-159-21	CERAMIC	0.1uF		50V
C203	1-126-964-11	ELECT	10uF	20.00%	50V
< CONNECTOR >					
* CN201	1-568-947-11	PIN, CONNECTOR 9P			
< IC >					
IC201	8-759-365-94	IC TA8409S			
< COIL >					
L201	1-408-117-00	INDUCTOR	10uH		
< RESISTOR >					
R205	1-249-427-11	CARBON	6.8K	5%	1/4W F
R206	1-249-425-11	CARBON	4.7K	5%	1/4W F
< SWITCH >					
S201	1-762-587-11	SWITCH, PUSH (1 KEY)(UP SWITCH)			

	A-4428-176-A	CD-L BOARD, COMPLETE			

< CAPACITOR >					
C691	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
< CONNECTOR >					
CN812	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE)6P			

Ref. No.	Part No.	Description	Remark			
< DIODE >						
D641	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)				
< RESISTOR >						
R729	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R730	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R731	1-247-843-11	CARBON	3.3K	5%	1/4W	
R732	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R733	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R734	1-249-429-11	CARBON	10K	5%	1/4W	
R735	1-249-431-11	CARBON	15K	5%	1/4W	
R736	1-249-434-11	CARBON	27K	5%	1/4W	
R745	1-249-408-11	CARBON	180	5%	1/4W	F
< SWITCH >						
S651	1-762-875-21	SWITCH, KEYBOARD (LOOP)				
S652	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)				
S653	1-762-875-21	SWITCH, KEYBOARD (EDIT)				
S654	1-762-875-21	SWITCH, KEYBOARD (DISC 1)				
S655	1-762-875-21	SWITCH, KEYBOARD (DISC 2)				
S656	1-762-875-21	SWITCH, KEYBOARD (DISC 3)				
S657	1-762-875-21	SWITCH, KEYBOARD (DISC 4)				
S658	1-762-875-21	SWITCH, KEYBOARD (DISC 5)				
S659	1-762-875-21	SWITCH, KEYBOARD (FLASH)				
S691	1-762-587-11	SWITCH, PUSH (1 KEY)(DOOR SW)				

A-4428-177-A		CD-R BOARD, COMPLETE				

< CAPACITOR >						
C613	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	
C614	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	
< CONNECTOR >						
CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE)7P				
< DIODE >						
D700	8-719-056-13	DIODE SML79423C-TP15 (▶▶)				
< RESISTOR >						
R751	1-247-843-11	CARBON	3.3K	5%	1/4W	
R752	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R753	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R754	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-431-11	CARBON	15K	5%	1/4W	
R756	1-249-434-11	CARBON	27K	5%	1/4W	
R757	1-249-438-11	CARBON	56K	5%	1/4W	
R758	1-249-403-11	CARBON	68	5%	1/4W	F
R759	1-249-403-11	CARBON	68	5%	1/4W	F
< SWITCH >						
S676	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)				
S677	1-762-875-21	SWITCH, KEYBOARD (▶▶)				
S678	1-762-875-21	SWITCH, KEYBOARD (◀◀)				
S679	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)				
S680	1-762-875-21	SWITCH, KEYBOARD (■)				

CD-R

FRONT INPUT

HEADPHONE

LEAF SW

LED

Ref. No.	Part No.	Description	Remark			
S681	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)				
S682	1-762-875-21	SWITCH, KEYBOARD (REPEAT)				
S701	1-473-393-11	ENCODER, ROTARY (I◀◀ AMS ▶▶I)				

	1-676-276-11	FRONT INPUT BOARD	*****			
		< CAPACITOR >				
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C811	1-162-282-31	CERAMIC	100PF	10%	50V	
C812	1-164-159-21	CERAMIC	0.1uF		50V	
C813	1-126-960-11	ELECT	1uF	20.00%	50V	
		< FILTER >				
FL803	1-424-228-11	FILTER, NOISE				
		< JACK >				
J804	1-764-592-41	JACK 3P (VIDEO 2)				
		< RESISTOR >				
R801	1-249-417-11	CARBON	1K	5%	1/4W	F
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-417-11	CARBON	1K	5%	1/4W	F
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-247-804-11	CARBON	75	5%	1/4W	

	1-676-281-11	HEADPHONE BOARD	*****			
		< CAPACITOR >				
C891	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C892	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C893	1-164-159-21	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CN802	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P				
		< JACK >				
J803	1-770-226-41	JACK (LARGE TYPE)(PHONES)				
		< RESISTOR >				
R810	1-247-807-31	CARBON	100	5%	1/4W	

	A-2007-800-A	LEAF SW BOARD, COMPLETE	*****			
		< CAPACITOR >				
C1001	1-107-716-11	ELECT	33uF	20.00%	10V	
		< CONNECTOR >				
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P				

Ref. No.	Part No.	Description	Remark			
< DIODE >						
D1001	8-719-991-33	DIODE 1SS133T-77				
D1002	8-719-991-33	DIODE 1SS133T-77				
< CABLE HOLDER >						
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH)4P				
< IC >						
IC1001	8-749-014-38	PHOTO INTERRUPTER	SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER	SG-264			
< TRANSISTOR >						
Q1001	8-729-029-56	TRANSISTOR	DTA144ESA-TP			
< RESISTOR >						
R907	1-249-441-11	CARBON	100K	5%	1/4W	
R1001	1-247-815-91	CARBON	220	5%	1/4W	
R1002	1-247-815-91	CARBON	220	5%	1/4W	
R1003	1-249-414-11	CARBON	560	5%	1/4W F	
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
< VARIABLE RESISTOR >						
RV1001	1-241-785-11	RES, ADJ, CARBON	10K			
RV1002	1-241-785-11	RES, ADJ, CARBON	10K			
< SWITCH >						
S1001	1-570-953-11	SWITCH, PUSH (1 KEY)(A PLAY)				
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)(B PLAY)				
S1003	1-771-333-11	SWITCH, LEAF (A HALF)				
S1004	1-771-205-11	SWITCH, LEAF (A 120/70)				
S1005	1-771-205-11	SWITCH, LEAF (REC A)				
S1006	1-771-333-11	SWITCH, LEAF (B HALF)				
S1008	1-771-205-11	SWITCH, LEAF (B 120/70)				
S1009	1-771-205-11	SWITCH, LEAF (REC B)				

* 1-659-059-13	LED BOARD	*****				
< DIODE >						
D201	8-719-032-98	DIODE	SEL5820A-TP15			
< TRANSISTOR >						
Q201	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
< RESISTOR >						
R201	1-247-863-91	CARBON	22K	5%	1/4W	
R202	1-249-411-11	CARBON	330	5%	1/4W	
R203	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
	A-4428-224-A	MAIN BOARD, COMPLETE (LX7) *****				C301	1-126-960-11	ELECT	1uF	20.00%	50V
						C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
	A-4428-229-A	MAIN BOARD, COMPLETE (LX8:E,AR) *****				C303	1-136-165-00	MYLAR	0.1uF	5.00%	50V
						C304	1-136-165-00	MYLAR	0.1uF	5.00%	50V
	A-4428-743-A	MAIN BOARD, COMPLETE (LX8:MX) *****				C305	1-126-964-11	ELECT	10uF	20.00%	50V
						C306	1-126-960-11	ELECT	1uF	20.00%	50V
						C307	1-126-959-11	ELECT	0.47uF	20.00%	50V
	A-4428-745-A	MAIN BOARD, COMPLETE (LX8:AUS) *****				C308	1-126-964-11	ELECT	10uF	20.00%	50V
						C309	1-137-194-81	MYLAR	0.47uF	5.00%	50V
	A-4428-750-A	MAIN BOARD, COMPLETE (LX8:EA,SP,MY) *****				C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C311	1-126-964-11	ELECT	10uF	20.00%	50V
						C312	1-126-959-11	ELECT	0.47uF	20.00%	50V
						C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
	4-875-327-31	HEAT SINK				C314	1-126-964-11	ELECT	10uF	20.00%	50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S									
		< CAPACITOR >									
C111	1-137-195-11	MYLAR	0.56uF	5.00%	50V	C315	1-126-963-11	ELECT	4.7uF	20.00%	50V
C112	1-130-488-00	MYLAR	0.027uF	5%	50V	C316	1-104-665-11	ELECT	100uF	20.00%	10V
C113	1-136-167-00	MYLAR	0.15uF	5.00%	50V	C317	1-104-665-11	ELECT	100uF	20.00%	10V
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V	C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C115	1-130-489-00	MYLAR	0.033uF	5%	50V	C333	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V	C334	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C117	1-130-483-00	MYLAR	0.01uF	5%	50V	C351	1-126-960-11	ELECT	1uF	20.00%	50V
C118	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V	C353	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V	C354	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C121	1-126-964-11	ELECT	10uF	20.00%	50V	C355	1-126-964-11	ELECT	10uF	20.00%	50V
C122	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V	C356	1-126-960-11	ELECT	1uF	20.00%	50V
C123	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C357	1-126-959-11	ELECT	0.47uF	20.00%	50V
C124	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C358	1-126-964-11	ELECT	10uF	20.00%	50V
C125	1-126-964-11	ELECT	10uF	20.00%	50V	C359	1-137-194-81	MYLAR	0.47uF	5.00%	50V
C131	1-104-664-11	ELECT	47uF	20.00%	16V	C401	1-126-961-11	ELECT	2.2uF	20.00%	50V
C132	1-104-664-11	ELECT	47uF	20.00%	16V	C411	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C135	1-126-964-11	ELECT	10uF	20.00%	50V	C412	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C161	1-137-195-11	MYLAR	0.56uF	5.00%	50V	C413	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C162	1-130-488-00	MYLAR	0.027uF	5%	50V	C414	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C163	1-136-167-00	MYLAR	0.15uF	5.00%	50V	C415	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	C416	1-126-925-11	ELECT	470uF	20.00%	10V
C165	1-130-489-00	MYLAR	0.033uF	5%	50V	C431	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V	C451	1-126-961-11	ELECT	2.2uF	20.00%	50V
C167	1-130-483-00	MYLAR	0.01uF	5%	50V	C510	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V
C168	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C511	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V	C516	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V	C562	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C171	1-126-964-11	ELECT	10uF	20.00%	50V	C564	1-104-665-11	ELECT	100uF	20.00%	10V
C172	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V	C598	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C173	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C599	1-104-665-11	ELECT	100uF	20.00%	10V
C174	1-136-169-00	MYLAR	0.22uF	5.00%	50V	C601	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C175	1-126-964-11	ELECT	10uF	20.00%	50V	C602	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C176	1-130-493-00	MYLAR	0.068uF	5%	50V	C603	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C177	1-130-483-00	MYLAR	0.01uF	5%	50V	C604	1-126-961-11	ELECT	2.2uF	20.00%	50V
											(LX8)
C181	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C604	1-126-963-11	ELECT	4.7uF	20.00%	50V
C182	1-163-038-91	CERAMIC CHIP	0.1uF		25V						(LX7)
C183	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C191	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C192	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C607	1-136-159-00	MYLAR	0.033uF	5.00%	50V
											(LX8)
C193	1-126-964-11	ELECT	10uF	20.00%	50V	C607	1-136-165-00	MYLAR	0.1uF	5.00%	50V
											(LX7)

MAIN

Ref. No.	Part No.	Description	Remark
C608	1-163-031-11	CERAMIC CHIP	0.01uF 50V
C609	1-126-933-11	ELECT	100uF 20.00% 16V
C651	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
C652	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C653	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C654	1-126-961-11	ELECT	2.2uF 20.00% 50V (LX8)
C654	1-126-963-11	ELECT	4.7uF 20.00% 50V (LX7)
C655	1-130-479-00	MYLAR	0.0047uF 5% 50V
C656	1-130-473-00	MYLAR	0.0015uF 5% 50V
C657	1-136-159-00	MYLAR	0.033uF 5.00% 50V (LX8)
C657	1-136-165-00	MYLAR	0.1uF 5.00% 50V (LX7)
C658	1-163-031-11	CERAMIC CHIP	0.01uF 50V
C659	1-126-933-11	ELECT	100uF 20.00% 16V
C701	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C702	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C703	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C706	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C707	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C721	1-126-960-11	ELECT	1uF 20.00% 50V
C722	1-126-926-11	ELECT	1000uF 20.00% 10V
C724	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
C751	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C752	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C753	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C772	1-163-038-91	CERAMIC CHIP	0.1uF 25V
C774	1-163-038-91	CERAMIC CHIP	0.1uF 25V
C777	1-163-038-91	CERAMIC CHIP	0.1uF 25V
C782	1-104-665-11	ELECT	100uF 20.00% 10V
C803	1-126-964-11	ELECT	10uF 20.00% 50V
C804	1-136-165-00	MYLAR	0.1uF 5.00% 50V
C805	1-136-165-00	MYLAR	0.1uF 5.00% 50V
C806	1-126-916-11	ELECT	1000uF 20.00% 6.3V
C808	1-109-953-11	ELECT	2.2uF 20.00% 50V
C902	1-126-937-11	ELECT	4700uF 20.00% 16V
C903	1-126-964-11	ELECT	10uF 20.00% 50V
C904	1-126-964-11	ELECT	10uF 20.00% 50V
C905	1-126-924-11	ELECT	330uF 20.00% 10V
C911	1-126-964-11	ELECT	10uF 20.00% 50V
C912	1-126-916-11	ELECT	1000uF 20.00% 6.3V
C913	1-104-665-11	ELECT	100uF 20.00% 10V
C914	1-126-916-11	ELECT	1000uF 20.00% 6.3V
C932	1-126-964-11	ELECT	10uF 20.00% 50V
C933	1-126-933-11	ELECT	100uF 20.00% 16V
C934	1-126-964-11	ELECT	10uF 20.00% 50V
C935	1-126-767-11	ELECT	1000uF 20.00% 16V
C936	1-126-964-11	ELECT	10uF 20.00% 50V
C937	1-104-665-11	ELECT	100uF 20.00% 10V
C938	1-126-933-11	ELECT	100uF 20.00% 16V
C952	1-126-943-11	ELECT	2200uF 20.00% 25V
C953	1-126-964-11	ELECT	10uF 20.00% 50V
C954	1-126-964-11	ELECT	10uF 20.00% 50V
C955	1-126-924-11	ELECT	330uF 20.00% 10V
C961	1-163-038-91	CERAMIC CHIP	0.1uF 25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN303	1-784-776-11	CONNECTOR, FFC 15P	
CN304	1-784-778-11	CONNECTOR, FFC 17P	
CN411	1-784-780-11	CONNECTOR, FFC 19P	
CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P	
CN431	1-784-774-11	CONNECTOR, FFC 13P	
CN431	1-784-776-11	CONNECTOR, FFC 15P	
CN441	1-750-745-11	CONNECTOR, FFC/FPC 13P (LX8)	
CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (LX7)	
CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P	
CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
CN901	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	
* CN902	1-770-729-11	CONNECTOR, BOARD TO BOARD 10P (LX8:EA,SP,MY,AUS)	
CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P (LX7/LX8:E,AR,MX)	
* CN903	1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D191	8-719-988-61	DIODE 1SS355TE-17	
D192	8-719-988-61	DIODE 1SS355TE-17	
D193	8-719-988-61	DIODE 1SS355TE-17	
D194	8-719-988-61	DIODE 1SS355TE-17	
D333	8-719-988-61	DIODE 1SS355TE-17 (LX8:EA,SP,MY)	
D334	8-719-988-61	DIODE 1SS355TE-17 (LX8:EA,SP,MY)	
D334	1-216-295-91	SHORT 0 (LX7/LX8:AR,MX,AUS,E)	
D335	8-719-988-61	DIODE 1SS355TE-17 (LX8:EA,SP,MY)	
D336	8-719-988-61	DIODE 1SS355TE-17 (LX8:EA,SP,MY)	
D501	8-719-988-61	DIODE 1SS355TE-17	
D534	8-719-988-61	DIODE 1SS355TE-17	
D801	8-719-988-61	DIODE 1SS355TE-17	
D802	8-719-988-61	DIODE 1SS355TE-17	
D803	8-719-988-61	DIODE 1SS355TE-17	
D804	8-719-988-61	DIODE 1SS355TE-17	
D805	8-719-988-61	DIODE 1SS355TE-17	
D806	8-719-988-61	DIODE 1SS355TE-17	
D807	8-719-988-61	DIODE 1SS355TE-17	
D808	8-719-210-33	DIODE EC10DS2-TE12L5	
D911	8-719-988-61	DIODE 1SS355TE-17	
D912	8-719-210-33	DIODE EC10DS2-TE12L5	
D913	8-719-210-33	DIODE EC10DS2-TE12L5	
D931	8-719-210-33	DIODE EC10DS2-TE12L5	
D951	8-719-988-61	DIODE 1SS355TE-17	
		< FERRITE BEAD >	
FB412	1-414-772-11	FERRITE 0UH	
FB413	1-414-551-11	FERRITE 0UH	
FB415	1-414-772-11	FERRITE 0UH	
		< FILTER >	
FL501	1-233-289-21	FILTER, EMI (SMD)	
FL502	1-233-289-21	FILTER, EMI (SMD)	
FL503	1-233-289-21	FILTER, EMI (SMD)	
		< IC >	
IC101	8-759-571-54	IC M62493FP	
IC181	8-759-009-06	IC MC14052BFEL	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC191	8-759-571-53	IC BA7615N		Q333	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
IC301	8-759-495-26	IC HA12215F		Q334	8-729-029-66	TRANSISTOR DTC114ESA-TP	
IC501	8-759-653-44	IC M30622MA-A26FP		Q335	8-729-029-66	TRANSISTOR DTC114ESA-TP	
IC601	8-759-636-55	IC M5218AFP-T1		Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
IC781	8-749-923-04	IC TOTX178A (CD DIGITAL OUT)		Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK (LX8:EA,SP,MY)	
IC801	8-759-635-63	IC M51943BSL-TP		Q338	8-729-029-21	TRANSISTOR DTA114ESA-TP (LX8:EA,SP,MY)	
IC901	8-759-604-86	IC M5F7807L		Q339	8-729-029-66	TRANSISTOR DTC114ESA-TP	
IC911	8-759-231-53	IC M5F7805L		Q340	8-729-116-59	TRANSISTOR 2SB1068TP (LX8:EA,SP,MY)	
IC931	8-759-604-38	IC M5F78M10L		Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK (LX8:EA,SP,MY)	
IC932	8-759-701-79	IC NJM7812FA		Q342	8-729-029-21	TRANSISTOR DTA114ESA-TP (LX8:EA,SP,MY)	
IC933	8-759-604-86	IC M5F7807L		Q343	8-729-029-66	TRANSISTOR DTC114ESA-TP (LX8:EA,SP,MY)	
IC951	8-759-604-90	IC M5F7907L		Q801	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
< JACK >				Q802	8-729-029-21	TRANSISTOR DTA114ESA-TP	
J701	1-766-558-41	JACK, PIN 8P (PHONO,MD,VIDEO 1 (AUDIO))	(LX8:EA,SP,MY)	Q803	8-729-029-21	TRANSISTOR DTA114ESA-TP	
J701	1-794-148-21	JACK, PIN 8P (PHONO,MD,VIDEO 1 (AUDIO))	(LX7/LX8:E,AR,MX,AUS)	Q804	8-729-029-40	TRANSISTOR DTA124ESA-TP	
J702	1-770-336-11	JACK, PIN 2P (VIDEO 1 (VIDEO))		Q901	8-729-040-20	TRANSISTOR RT1P137L-TP	
J705	1-573-028-31	JACK, PIN 4P (CD) (LX7/LX8:MX)		Q902	8-729-029-40	TRANSISTOR DTA124ESA-TP	
< JUMPER RESISTOR >				Q903	8-729-040-19	TRANSISTOR RT1N137L-TP	
JR1	1-216-295-91	SHORT	0	Q904	8-729-029-86	TRANSISTOR DTC124ESA-TP	
JR2	1-216-296-91	SHORT	0	Q905	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
JR3	1-216-296-91	SHORT	0	Q906	8-729-029-68	TRANSISTOR DTC114TSA-TP	
JR4	1-216-295-91	SHORT	0	Q911	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR5	1-216-295-91	SHORT	0	Q912	8-729-029-86	TRANSISTOR DTC124ESA-TP	
JR6	1-216-296-91	SHORT	0	Q913	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR7	1-216-296-91	SHORT	0	Q914	8-729-029-86	TRANSISTOR DTC124ESA-TP	
JR8	1-216-296-91	SHORT	0	Q931	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR9	1-216-295-91	SHORT	0	Q932	8-729-029-86	TRANSISTOR DTC124ESA-TP	
JR10	1-216-296-91	SHORT	0	Q961	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
JR11	1-216-296-91	SHORT	0	Q962	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
JR181	1-216-295-91	SHORT	0	< RESISTOR >			
JR182	1-216-295-91	SHORT	0	R111	1-216-073-00	METAL CHIP 10K	5% 1/10W
JR191	1-216-295-91	SHORT	0	R112	1-216-121-91	RES-CHIP 1M	5% 1/10W
JR192	1-216-295-91	SHORT	0	R113	1-216-103-00	METAL CHIP 180K	5% 1/10W
JR594	1-216-295-91	SHORT	0	R114	1-216-043-91	RES-CHIP 560	5% 1/10W
JR703	1-216-295-91	SHORT	0	R115	1-216-073-00	METAL CHIP 10K	5% 1/10W
JR901	1-216-295-91	SHORT	0	R116	1-216-091-00	METAL CHIP 56K	5% 1/10W
JR907	1-216-295-91	SHORT	0 (LX8)	R117	1-216-073-00	METAL CHIP 10K	5% 1/10W
JR910	1-216-296-91	SHORT	0 (LX7)	R118	1-216-089-91	RES-CHIP 47K	5% 1/10W
< COIL >				R119	1-216-057-00	METAL CHIP 2.2K	5% 1/10W
L781	1-412-032-11	INDUCTOR CHIP 100uH		R120	1-216-097-91	RES-CHIP 100K	5% 1/10W
< TRANSISTOR >				R121	1-216-073-00	METAL CHIP 10K	5% 1/10W
Q111	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R122	1-216-295-91	SHORT 0	
Q112	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R123	1-216-107-00	METAL CHIP 270K	5% 1/10W
Q113	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R124	1-216-057-00	METAL CHIP 2.2K	5% 1/10W
Q115	8-729-029-86	TRANSISTOR DTC124ESA-TP		R125	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
Q161	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R126	1-216-057-00	METAL CHIP 2.2K	5% 1/10W
Q162	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R127	1-216-111-00	METAL CHIP 390K	5% 1/10W
Q163	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R129	1-216-121-91	RES-CHIP 1M	5% 1/10W
Q165	8-729-029-86	TRANSISTOR DTC124ESA-TP		R131	1-216-025-91	RES-CHIP 100	5% 1/10W
Q331	8-729-140-04	TRANSISTOR 2SB1116-TP-LK		R132	1-216-025-91	RES-CHIP 100	5% 1/10W
Q332	8-729-029-66	TRANSISTOR DTC114ESA-TP		R133	1-216-025-91	RES-CHIP 100	5% 1/10W
				R161	1-216-073-00	METAL CHIP 10K	5% 1/10W
				R162	1-216-121-91	RES-CHIP 1M	5% 1/10W
				R163	1-216-103-00	METAL CHIP 180K	5% 1/10W
				R164	1-216-043-91	RES-CHIP 560	5% 1/10W
				R165	1-216-089-91	RES-CHIP 47K	5% 1/10W

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R166	1-216-091-00	METAL CHIP	56K	5%	1/10W	R351	1-216-085-00	METAL CHIP	33K	5%	1/10W
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W	R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R168	1-216-089-91	RES-CHIP	47K	5%	1/10W	R353	1-216-025-91	RES-CHIP	100	5%	1/10W
R169	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R354	1-216-025-91	RES-CHIP	100	5%	1/10W
						R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R170	1-216-097-91	RES-CHIP	100K	5%	1/10W	R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W	R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R172	1-216-295-91	SHORT	0			R358	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R173	1-216-107-00	METAL CHIP	270K	5%	1/10W	R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W	R371	1-216-089-91	RES-CHIP	47K	5%	1/10W
R175	1-216-097-91	RES-CHIP	100K	5%	1/10W	R372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R177	1-216-111-00	METAL CHIP	390K	5%	1/10W	R373	1-216-049-91	RES-CHIP	1K	5%	1/10W
R178	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R374	1-216-089-91	RES-CHIP	47K	5%	1/10W
R179	1-216-121-91	RES-CHIP	1M	5%	1/10W	R375	1-216-094-00	RES-CHIP	75K	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W	R376	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R377	1-216-089-91	RES-CHIP	47K	5%	1/10W
R303	1-216-025-91	RES-CHIP	100	5%	1/10W	R378	1-216-094-00	RES-CHIP	75K	5%	1/10W
R304	1-216-025-91	RES-CHIP	100	5%	1/10W	R401	1-216-025-91	RES-CHIP	100	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R413	1-216-295-91	SHORT	0		
R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R414	1-216-295-91	SHORT	0		
R308	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R451	1-216-025-91	RES-CHIP	100	5%	1/10W
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W	R452	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R311	1-216-121-91	RES-CHIP	1M	5%	1/10W	R501	1-216-025-91	RES-CHIP	100	5%	1/10W
R312	1-216-102-00	RES-CHIP	160K	5%	1/10W	R503	1-216-025-91	RES-CHIP	100	5%	1/10W
R313	1-216-097-91	RES-CHIP	100K	5%	1/10W	R505	1-216-025-91	RES-CHIP	100	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W	R511	1-216-109-00	METAL CHIP	330K	5%	1/10W
R316	1-216-079-00	METAL CHIP	18K	5%	1/10W	R513	1-216-295-91	SHORT	0		
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W	R517	1-216-073-00	METAL CHIP	10K	5%	1/10W
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W	R518	1-216-025-91	RES-CHIP	100	5%	1/10W
R319	1-216-111-00	METAL CHIP	390K	5%	1/10W	R519	1-216-025-91	RES-CHIP	100	5%	1/10W
R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	R520	1-216-025-91	RES-CHIP	100	5%	1/10W
R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W						(LX7)
R332	1-216-045-00	METAL CHIP	680	5%	1/10W	R521	1-216-025-91	RES-CHIP	100	5%	1/10W
R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W						(LX7)
R334	1-216-045-00	METAL CHIP	680	5%	1/10W	R522	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R336	1-216-089-91	RES-CHIP	47K	5%	1/10W						
					(LX8:EA,SP,MY)	R527	1-216-025-91	RES-CHIP	100	5%	1/10W
R337	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R528	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R529	1-216-025-91	RES-CHIP	100	5%	1/10W
R338	1-216-045-00	METAL CHIP	680	5%	1/10W	R530	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R532	1-216-025-91	RES-CHIP	100	5%	1/10W
R339	1-216-089-91	RES-CHIP	47K	5%	1/10W	R533	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R535	1-216-025-91	RES-CHIP	100	5%	1/10W
R340	1-216-089-91	RES-CHIP	47K	5%	1/10W	R536	1-216-025-91	RES-CHIP	100	5%	1/10W
R341	1-216-045-00	METAL CHIP	680	5%	1/10W	R537	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R538	1-216-025-91	RES-CHIP	100	5%	1/10W
R342	1-216-089-91	RES-CHIP	47K	5%	1/10W						
					(LX8:EA,SP,MY)	R540	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R541	1-216-073-00	METAL CHIP	10K	5%	1/10W
R344	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R542	1-216-025-91	RES-CHIP	100	5%	1/10W
R345	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R543	1-216-025-91	RES-CHIP	100	5%	1/10W
R346	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R545	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R546	1-216-025-91	RES-CHIP	100	5%	1/10W
R347	1-216-045-00	METAL CHIP	680	5%	1/10W	R547	1-216-025-91	RES-CHIP	100	5%	1/10W
					(LX8:EA,SP,MY)	R548	1-216-025-91	RES-CHIP	100	5%	1/10W
R348	1-216-045-00	METAL CHIP	680	5%	1/10W	R549	1-216-041-00	METAL CHIP	470	5%	1/10W
					(LX8:EA,SP,MY)	R550	1-216-025-91	RES-CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R551	1-216-025-91	RES-CHIP	100	5%	1/10W	R607	1-216-049-91	RES-CHIP	1K	5%	1/10W
R552	1-216-025-91	RES-CHIP	100	5%	1/10W	R608	1-216-097-91	RES-CHIP	100K	5%	1/10W
R553	1-216-025-91	RES-CHIP	100	5%	1/10W	R609	1-216-033-00	METAL CHIP	220	5%	1/10W
R554	1-216-025-91	RES-CHIP	100	5%	1/10W						
R555	1-216-025-91	RES-CHIP	100	5%	1/10W	R651	1-216-049-91	RES-CHIP	1K	5%	1/10W
						R652	1-216-049-91	RES-CHIP	1K	5%	1/10W
R556	1-216-025-91	RES-CHIP	100	5%	1/10W	R653	1-216-089-91	RES-CHIP	47K	5%	1/10W
R557	1-216-025-91	RES-CHIP	100	5%	1/10W	R654	1-216-047-91	RES-CHIP	820	5%	1/10W
R558	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7)
R559	1-216-025-91	RES-CHIP	100	5%	1/10W	R654	1-216-049-91	RES-CHIP	1K	5%	1/10W
R561	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX8)
R563	1-216-025-91	RES-CHIP	100	5%	1/10W	R655	1-216-115-00	METAL CHIP	560K	5%	1/10W
R565	1-216-025-91	RES-CHIP	100	5%	1/10W	R656	1-216-089-91	RES-CHIP	47K	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W	R657	1-216-049-91	RES-CHIP	1K	5%	1/10W
R568	1-216-025-91	RES-CHIP	100	5%	1/10W	R658	1-216-097-91	RES-CHIP	100K	5%	1/10W
R569	1-216-025-91	RES-CHIP	100	5%	1/10W	R659	1-216-033-00	METAL CHIP	220	5%	1/10W
R570	1-216-089-91	RES-CHIP	47K	5%	1/10W	R701	1-216-049-91	RES-CHIP	1K	5%	1/10W
R572	1-216-025-91	RES-CHIP	100	5%	1/10W	R702	1-216-097-91	RES-CHIP	100K	5%	1/10W
R573	1-216-025-91	RES-CHIP	100	5%	1/10W	R703	1-216-049-91	RES-CHIP	1K	5%	1/10W
R574	1-216-025-91	RES-CHIP	100	5%	1/10W	R704	1-216-097-91	RES-CHIP	100K	5%	1/10W
R575	1-216-025-91	RES-CHIP	100	5%	1/10W	R705	1-216-049-91	RES-CHIP	1K	5%	1/10W
R576	1-216-025-91	RES-CHIP	100	5%	1/10W	R706	1-216-097-91	RES-CHIP	100K	5%	1/10W
R577	1-216-025-91	RES-CHIP	100	5%	1/10W	R707	1-216-049-91	RES-CHIP	1K	5%	1/10W
R578	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7/LX8:MX)
R579	1-216-025-91	RES-CHIP	100	5%	1/10W	R708	1-216-049-91	RES-CHIP	1K	5%	1/10W
R580	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7/LX8:MX)
						R709	1-216-049-91	RES-CHIP	1K	5%	1/10W
R581	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7/LX8:MX)
R582	1-216-025-91	RES-CHIP	100	5%	1/10W	R710	1-216-049-91	RES-CHIP	1K	5%	1/10W
R583	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7/LX8:MX)
R584	1-216-025-91	RES-CHIP	100	5%	1/10W						
R585	1-216-025-91	RES-CHIP	100	5%	1/10W	R719	1-216-097-91	RES-CHIP	100K	5%	1/10W
											(LX7/LX8:MX)
R586	1-216-025-91	RES-CHIP	100	5%	1/10W	R720	1-216-097-91	RES-CHIP	100K	5%	1/10W
R587	1-216-025-91	RES-CHIP	100	5%	1/10W						(LX7/LX8:MX)
R588	1-216-025-91	RES-CHIP	100	5%	1/10W	R721	1-216-022-00	METAL CHIP	75	5%	1/10W
R589	1-216-025-91	RES-CHIP	100	5%	1/10W	R722	1-216-015-00	METAL CHIP	39	5%	1/10W
R590	1-216-025-91	RES-CHIP	100	5%	1/10W	R724	1-216-073-00	METAL CHIP	10K	5%	1/10W
R591	1-216-025-91	RES-CHIP	100	5%	1/10W	R751	1-216-049-91	RES-CHIP	1K	5%	1/10W
R593	1-216-025-91	RES-CHIP	100	5%	1/10W	R752	1-216-097-91	RES-CHIP	100K	5%	1/10W
R594	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R753	1-216-049-91	RES-CHIP	1K	5%	1/10W
R595	1-216-089-91	RES-CHIP	47K	5%	1/10W	R754	1-216-097-91	RES-CHIP	100K	5%	1/10W
R596	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R755	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX7)						
R596	1-216-081-00	METAL CHIP	22K	5%	1/10W	R756	1-216-097-91	RES-CHIP	100K	5%	1/10W
					(LX8:E,AR,MX)	R801	1-216-049-91	RES-CHIP	1K	5%	1/10W
R596	1-216-089-91	RES-CHIP	47K	5%	1/10W	R802	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
					(LX8:EA,SP,MY,AUS)	R803	1-216-025-91	RES-CHIP	100	5%	1/10W
R597	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R804	1-216-089-91	RES-CHIP	47K	5%	1/10W
					(LX8:EA,SP,MY,AUS)						
R597	1-216-089-91	RES-CHIP	47K	5%	1/10W	R805	1-216-089-91	RES-CHIP	47K	5%	1/10W
					(LX7/LX8:E,AR,MX)	R806	1-216-073-00	METAL CHIP	10K	5%	1/10W
R600	1-216-025-91	RES-CHIP	100	5%	1/10W	R807	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R808	1-216-049-91	RES-CHIP	1K	5%	1/10W
R601	1-216-049-91	RES-CHIP	1K	5%	1/10W	R809	1-216-097-91	RES-CHIP	100K	5%	1/10W
R602	1-216-049-91	RES-CHIP	1K	5%	1/10W						
R603	1-216-089-91	RES-CHIP	47K	5%	1/10W	R810	1-216-033-00	METAL CHIP	220	5%	1/10W
R604	1-216-047-91	RES-CHIP	820	5%	1/10W	R811	1-216-097-91	RES-CHIP	100K	5%	1/10W
					(LX7)	R901	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R604	1-216-049-91	RES-CHIP	1K	5%	1/10W	R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
					(LX8)	R903	1-216-049-91	RES-CHIP	1K	5%	1/10W
R605	1-216-115-00	METAL CHIP	560K	5%	1/10W	R961	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R606	1-216-089-91	RES-CHIP	47K	5%	1/10W	R962	1-216-079-00	METAL CHIP	18K	5%	1/10W
						R963	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

MAIN

MIC

PA

Ref. No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K	
RV351	1-238-600-11	RES, ADJ, CARBON 10K	
< VIBRATOR >			
X501	1-567-098-41	VIBRATOR, CRYSTAL 32.768MHz	
X502	1-781-107-21	VIBRATOR, SERAMIC 16MHz	

A-4428-180-A MIC BOARD, COMPLETE			

< CAPACITOR >			
C801	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C802	1-162-215-31	CERAMIC 47PF 5% 50V	
C803	1-126-960-11	ELECT 1uF 20.00% 50V	
C804	1-126-959-11	ELECT 0.47uF 20.00% 50V	
C805	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C806	1-162-215-31	CERAMIC 47PF 5% 50V	
C810	1-162-286-21	CERAMIC 220PF 10.00% 50V	
C813	1-137-370-11	MYLAR 0.01uF 5.00% 50V	
C814	1-162-215-31	CERAMIC 47PF 5% 50V	
C815	1-162-215-31	CERAMIC 47PF 5% 50V	
C816	1-126-961-11	ELECT 2.2uF 20.00% 50V	
C817	1-126-961-11	ELECT 2.2uF 20.00% 50V	
C818	1-162-215-31	CERAMIC 47PF 5% 50V	
C819	1-162-282-31	CERAMIC 100PF 10% 50V	
C821	1-104-664-11	ELECT 47uF 20.00% 16V	
C822	1-104-664-11	ELECT 47uF 20.00% 16V	
C836	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
< CONNECTOR >			
CN813	1-785-320-11	PIN, CONNECTOR (STRAIGHT)8P	
< EARTH TERMINAL >			
* EPT802	1-537-738-21	TERMINAL, EARTH	
< FILTER >			
FL801	1-424-228-11	FILTER, NOISE	
< IC >			
IC850	8-759-634-50	IC M5218AL	
IC852	8-759-634-50	IC M5218AL	
< JACK >			
J801	1-770-226-41	JACK (LARGE TYPE)(MIX MIC)	
J802	1-770-226-41	JACK (LARGE TYPE)(GUITAR)	
< RESISTOR >			
R806	1-247-903-00	CARBON 1M 5% 1/4W	
R807	1-249-429-11	CARBON 10K 5% 1/4W	
R809	1-249-417-11	CARBON 1K 5% 1/4W	F
R850	1-249-417-11	CARBON 1K 5% 1/4W	F
R852	1-249-441-11	CARBON 100K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R853	1-249-417-11	CARBON 1K 5% 1/4W	F
R854	1-249-437-11	CARBON 47K 5% 1/4W	
R855	1-249-429-11	CARBON 10K 5% 1/4W	
R856	1-247-891-00	CARBON 330K 5% 1/4W	
R857	1-249-417-11	CARBON 1K 5% 1/4W	F
R869	1-249-434-11	CARBON 27K 5% 1/4W	
R870	1-247-903-00	CARBON 1M 5% 1/4W	
R871	1-249-417-11	CARBON 1K 5% 1/4W	F
R872	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R873	1-249-417-11	CARBON 1K 5% 1/4W	F
R874	1-249-417-11	CARBON 1K 5% 1/4W	F

A-4428-225-A PA BOARD, COMPLETE (LX7)			

A-4428-230-A PA BOARD, COMPLETE (LX8:E,AR,MX)			

A-4428-748-A PA BOARD, COMPLETE (LX8:EA,SP,MY,AUS)			

< CAPACITOR >			
C401	1-126-963-11	ELECT 4.7uF 20.00% 50V	
C402	1-164-159-21	CERAMIC 0.1uF 50V	(LX7)
C403	1-164-159-21	CERAMIC 0.1uF 50V	(LX7)
C404	1-164-159-21	CERAMIC 0.1uF 50V	(LX7)
C405	1-164-159-21	CERAMIC 0.1uF 50V	(LX7)
C412	1-161-494-00	CERAMIC 0.022uF 25V	
C413	1-161-494-00	CERAMIC 0.022uF 25V	
C432	1-104-665-11	ELECT 100uF 20.00% 10V	
C433	1-126-961-11	ELECT 2.2uF 20.00% 50V	(LX7)
C433	1-126-962-11	ELECT 3.3uF 20.00% 50V	(LX8)
C801	1-128-582-11	ELECT 10uF 20.00% 100V	
C802	1-162-292-31	CERAMIC 680PF 10% 50V	
C803	1-162-286-21	CERAMIC 220PF 10.00% 50V	
C804	1-126-967-11	ELECT 47uF 20.00% 50V	
C807	1-128-560-11	ELECT 22uF 20.00% 100V	
C808	1-130-777-00	MYLAR 0.1uF 10.00% 100V	
C809	1-130-777-00	MYLAR 0.1uF 10.00% 100V	
C810	1-128-562-11	ELECT 47uF 20.00% 100V	(LX8)
C810	1-128-578-11	ELECT 1uF 20.00% 100V	(LX7)
C811	1-130-493-00	MYLAR 0.068uF 5% 50V	
C812	1-130-493-00	MYLAR 0.068uF 5% 50V	
C813	1-161-494-00	CERAMIC 0.022uF 25V	
C814	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C815	1-126-959-11	ELECT 0.47uF 20.00% 50V	
C830	1-107-714-11	ELECT 10uF 20.00% 50V	
C831	1-126-964-11	ELECT 10uF 20.00% 50V	
C832	1-126-967-11	ELECT 47uF 20.00% 50V	
C841	1-127-752-11	ELECT 3300uF 20% 63V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C842	1-127-752-11	ELECT	3300uF 20% 63V	D842	8-719-200-82	DIODE 11ES2-NTA1B	
C844	1-130-777-00	MYLAR	0.1uF 10.00% 100V	D843	8-719-200-82	DIODE 11ES2-NTA1B	
C845	1-126-943-11	ELECT	2200uF 20.00% 25V	D844	8-719-200-82	DIODE 11ES2-NTA1B	
C847	1-164-159-21	CERAMIC	0.1uF 50V	D851	8-719-991-33	DIODE 1SS133T-77	
C848	1-164-159-21	CERAMIC	0.1uF 50V	D852	8-719-110-49	DIODE MTZJ-T-77-18A	
C849	1-164-159-21	CERAMIC	0.1uF 50V	D853	8-719-991-33	DIODE 1SS133T-77 (LX7)	
C850	1-107-721-11	ELECT	4.7uF 20.00% 100V	D902	8-719-210-21	DIODE 11EQS04-NTA1B (LX7)	
C851	1-128-582-11	ELECT	10uF 20.00% 100V	D903	8-719-210-21	DIODE 11EQS04-NTA1B (LX7)	
C852	1-162-292-31	CERAMIC	680PF 10% 50V	D904	8-719-210-21	DIODE 11EQS04-NTA1B (LX7)	
C853	1-162-286-21	CERAMIC	220PF 10.00% 50V	D905	8-719-210-21	DIODE 11EQS04-NTA1B (LX7)	
C854	1-126-967-11	ELECT	47uF 20.00% 50V	D906	8-719-991-33	DIODE 1SS133T-77 (LX7)	
C857	1-128-560-11	ELECT	22uF 20.00% 100V	D907	8-719-200-82	DIODE 11ES2-NTA1B (LX7)	
C858	1-164-159-21	CERAMIC	0.1uF 50V	D908	8-719-200-82	DIODE 11ES2-NTA1B (LX7)	
C859	1-164-159-21	CERAMIC	0.1uF 50V	D909	8-719-200-82	DIODE 11ES2-NTA1B (LX7)	
C861	1-130-493-00	MYLAR	0.068uF 5% 50V	D910	8-719-200-82	DIODE 11ES2-NTA1B (LX7)	
C862	1-130-493-00	MYLAR	0.068uF 5% 50V	D911	8-719-982-37	DIODE MTZJ-T-77-39C	
C863	1-126-961-11	ELECT	2.2uF 20.00% 50V (LX7)	D912	8-719-109-89	DIODE MTZJ-T-77-5.6	
C891	1-127-752-11	ELECT	3300uF 20% 63V	D913	8-719-991-33	DIODE 1SS133T-77 (LX7)	
C892	1-127-755-11	ELECT	3300uF 20% 100V			< IC >	
C894	1-130-777-00	MYLAR	0.1uF 10.00% 100V	IC801	8-749-017-06	IC STK412-150 (LX7)	
C895	1-107-721-11	ELECT	4.7uF 20.00% 100V	IC801	8-749-017-07	IC STK412-170 (LX8)	
C902	1-164-159-21	CERAMIC	0.1uF 50V (LX7)	IC901	8-759-450-47	IC BA05T (LX7)	
C903	1-126-933-11	ELECT	100uF 20.00% 16V (LX7)			< COIL >	
C904	1-126-964-11	ELECT	10uF 20.00% 50V	L401	1-420-872-00	COIL, AIR-CORE (LX7)	
C905	1-126-968-11	ELECT	100uF 20.00% 50V	L402	1-420-872-00	COIL, AIR-CORE (LX7)	
C906	1-126-943-11	ELECT	2200uF 20.00% 25V (LX7)			< TRANSISTOR >	
C909	1-164-159-21	CERAMIC	0.1uF 50V	Q401	8-729-029-21	TRANSISTOR DTA114ESA-TP (LX7)	
C910	1-104-665-11	ELECT	100uF 20.00% 10V (LX7)	Q401	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA (LX8)	
C962	1-128-563-11	ELECT	100uF 20.00% 100V (LX7)	Q402	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
		< CONNECTOR >		Q431	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q432	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q433	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
CN904	1-785-320-11	PIN, CONNECTOR (STRAIGHT)8P (LX7)		Q434	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
		< DIODE >		Q437	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
D401	8-719-991-33	DIODE 1SS133T-77		Q439	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
D402	8-719-991-33	DIODE 1SS133T-77		Q801	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
D405	8-719-991-33	DIODE 1SS133T-77		Q803	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D406	8-719-991-33	DIODE 1SS133T-77		Q804	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
D801	8-719-991-33	DIODE 1SS133T-77		Q805	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2	
D802	8-719-110-49	DIODE MTZJ-T-77-18A		Q831	8-729-029-86	TRANSISTOR DTC124ESA-TP	
D803	8-719-991-33	DIODE 1SS133T-77		Q832	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
D804	8-719-991-33	DIODE 1SS133T-77		Q833	8-729-029-40	TRANSISTOR DTA124ESA-TP	
D805	8-719-991-33	DIODE 1SS133T-77		Q834	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
D831	8-719-060-53	DIODE RBV-2506		Q851	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
D833	8-719-200-82	DIODE 11ES2-NTA1B		Q855	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2	
D834	8-719-200-82	DIODE 11ES2-NTA1B		Q901	8-729-620-05	TRANSISTOR 2SC2603TP-EF (LX7)	
D835	8-719-200-82	DIODE 11ES2-NTA1B		Q902	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA (LX7)	
D836	8-719-200-82	DIODE 11ES2-NTA1B		Q903	8-729-118-01	TRANSISTOR 2SB1014TP-34 (LX7)	
D841	8-719-200-82	DIODE 11ES2-NTA1B		Q903	8-729-141-83	TRANSISTOR 2SB1375 (LX8)	
				Q904	8-729-048-13	TRANSISTOR 2SC3616-KLM-T1 (LX7)	
				Q905	8-729-048-13	TRANSISTOR 2SC3616-KLM-T1 (LX7)	
				Q906	8-729-029-21	TRANSISTOR DTA114ESA-TP (LX7)	
				Q907	8-729-029-21	TRANSISTOR DTA114ESA-TP (LX7)	
				Q908	8-729-119-76	TRANSISTOR 2SA1115TP-EF (LX8)	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< RESISTOR >							R823	1-247-863-91	CARBON	22K	5%	1/4W	
△ R401	1-215-867-00	METAL OXIDE	470	5%	1W	△ R824	1-249-418-11	CARBON	1.2K	5%	1/4W	F	
					(LX8)	R825	1-215-891-11	METAL OXIDE	680	5%	2W		
						R827	1-249-441-11	CARBON	100K	5%	1/4W		
△ R401	1-215-868-00	METAL OXIDE	680	5%	1W	R828	1-247-903-00	CARBON	1M	5%	1/4W		
					(LX7)								
R406	1-249-437-11	CARBON	47K	5%	1/4W	R831	1-249-441-11	CARBON	100K	5%	1/4W		
R407	1-249-437-11	CARBON	47K	5%	1/4W	R832	1-249-441-11	CARBON	100K	5%	1/4W		
R410	1-249-389-11	CARBON	4.7	5%	1/4W	R833	1-247-856-00	CARBON	11K	5%	1/4W		
					(LX7)							(LX8)	
R411	1-249-389-11	CARBON	4.7	5%	1/4W	F	R833	1-247-858-11	CARBON	13K	5%	1/4W	(LX7)
					(LX7)								
R412	1-249-389-11	CARBON	4.7	5%	1/4W	F	R834	1-249-429-11	CARBON	10K	5%	1/4W	
					(LX7)								
R413	1-249-389-11	CARBON	4.7	5%	1/4W	F	R835	1-249-437-11	CARBON	47K	5%	1/4W	
					(LX7)		R836	1-249-417-11	CARBON	1K	5%	1/4W	F
R414	1-260-076-11	CARBON	10	5%	1/2W		R837	1-249-435-11	CARBON	33K	5%	1/4W	
					(LX7)		R838	1-249-435-11	CARBON	33K	5%	1/4W	
R415	1-260-076-11	CARBON	10	5%	1/2W		R839	1-215-877-11	METAL OXIDE	22K	5%	1W	
					(LX7)		R840	1-249-402-11	CARBON	56	5%	1/4W	F
							R851	1-249-417-11	CARBON	1K	5%	1/4W	F
R429	1-249-437-11	CARBON	47K	5%	1/4W		R852	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-249-438-11	CARBON	56K	5%	1/4W		R853	1-249-412-11	CARBON	390	5%	1/4W	F
R432	1-249-437-11	CARBON	47K	5%	1/4W		△ R855	1-215-891-11	METAL OXIDE	680	5%	2W	
R434	1-247-863-91	CARBON	22K	5%	1/4W								
R435	1-249-425-11	CARBON	4.7K	5%	1/4W	F	△ R857	1-212-881-11	FUSIBLE	100	5%	1/4W	
					(LX8)		R858	1-214-789-00	METAL	0.1	10%	5W	
							R859	1-260-076-11	CARBON	10	5%	1/2W	
R437	1-249-429-11	CARBON	10K	5%	1/4W		R860	1-249-437-11	CARBON	47K	5%	1/4W	
R439	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R861	1-249-417-11	CARBON	1K	5%	1/4W	F
R440	1-249-437-11	CARBON	47K	5%	1/4W								
					(LX7)		R862	1-249-431-11	CARBON	15K	5%	1/4W	
R440	1-247-863-91	CARBON	22K	5%	1/4W		R863	1-249-441-11	CARBON	100K	5%	1/4W	
					(LX8)		R864	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R441	1-249-435-11	CARBON	33K	5%	1/4W							(LX7)	
							R865	1-247-863-91	CARBON	22K	5%	1/4W	(LX7)
R446	1-249-429-11	CARBON	10K	5%	1/4W								
R447	1-249-437-11	CARBON	47K	5%	1/4W		R868	1-249-417-11	CARBON	1K	5%	1/4W	F
R460	1-249-429-11	CARBON	10K	5%	1/4W								
					(LX8)		R880	1-249-402-11	CARBON	56	5%	1/4W	F
R801	1-249-417-11	CARBON	1K	5%	1/4W	F	R888	1-214-789-00	METAL	0.1	10%	5W	
R802	1-249-437-11	CARBON	47K	5%	1/4W		R889	1-215-877-11	METAL OXIDE	22K	5%	1W	
							R898	1-214-789-00	METAL	0.1	10%	5W	
R803	1-249-412-11	CARBON	390	5%	1/4W	F	R901	1-249-429-11	CARBON	10K	5%	1/4W	
R804	1-249-435-11	CARBON	33K	5%	1/4W							(LX7)	
R805	1-216-436-00	METAL OXIDE	3.9K	5%	1W								
R806	1-216-436-00	METAL OXIDE	3.9K	5%	1W		R902	1-249-441-11	CARBON	100K	5%	1/4W	
△ R807	1-212-881-11	FUSIBLE	100	5%	1/4W							(LX7)	
							R903	1-249-429-11	CARBON	10K	5%	1/4W	
R808	1-214-789-00	METAL	0.1	10%	5W		R904	1-249-417-11	CARBON	1K	5%	1/4W	F
R809	1-260-076-11	CARBON	10	5%	1/2W		R905	1-249-429-11	CARBON	10K	5%	1/4W	
R810	1-249-437-11	CARBON	47K	5%	1/4W		R906	1-247-807-31	CARBON	100	5%	1/4W	
R811	1-249-417-11	CARBON	1K	5%	1/4W	F							
R812	1-249-431-11	CARBON	15K	5%	1/4W		R907	1-247-807-31	CARBON	100	5%	1/4W	
							R908	1-247-807-31	CARBON	100	5%	1/4W	(LX7)
R813	1-249-441-11	CARBON	100K	5%	1/4W								
R814	1-249-421-11	CARBON	2.2K	5%	1/4W	F	R911	1-249-429-11	CARBON	10K	5%	1/4W	(LX7)
R815	1-247-863-91	CARBON	22K	5%	1/4W							(LX7)	
R816	1-249-429-11	CARBON	10K	5%	1/4W		R912	1-249-429-11	CARBON	10K	5%	1/4W	(LX7)
R817	1-249-421-11	CARBON	2.2K	5%	1/4W	F						(LX7)	
							R915	1-247-791-91	CARBON	22	5%	1/4W	(LX8)
R818	1-249-417-11	CARBON	1K	5%	1/4W	F							
R819	1-249-439-11	CARBON	68K	5%	1/4W								
△ R820	1-202-972-61	FUSIBLE	1	5%	1/4W		R916	1-215-890-11	METAL OXIDE	470	5%	2W	(LX8)
R821	1-249-435-11	CARBON	33K	5%	1/4W								
R822	1-247-863-91	CARBON	22K	5%	1/4W								

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< RELAY >					
RY401	1-755-168-11	RELAY		D608	8-719-050-84	DIODE RB441Q-40T-77	
		< THERMISTOR >		D617	8-719-058-04	DIODE SEL5223S-TP15 (SURROUND)	
TH831	1-807-796-11	THERMISTOR				< FILTER >	
		< TERMINAL >		FL601	1-517-940-11	INDICATOR TUBE, FLUORESCENT	
TM401	1-537-842-11	TERMINAL BOARD (FRONT SPEAKER)				< IC >	
*****				IC601	8-759-653-43	IC TMP88CS76F-1A25	
				IC603	8-759-083-77	IC BA3830F	
						< COIL >	
	A-4428-215-A	PANEL FL BOARD, COMPLETE		L601	1-410-517-11	INDUCTOR 47uH	
		*****		L602	1-410-517-11	INDUCTOR 47uH	
	4-225-511-01	HOLDER (FL)		L603	1-410-517-11	INDUCTOR 47uH	
*	4-949-935-81	CUSHION (FL)				< LINE FILTER >	
		< CAPACITOR >		LF601	1-424-228-11	FILTER, NOISE	
C601	1-124-589-11	ELECT 47uF 20% 16V				< TRANSISTOR >	
C602	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		Q601	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
C603	1-164-159-21	CERAMIC 0.1uF 50V		Q602	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C604	1-126-960-11	ELECT 1uF 20.00% 50V		Q603	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C606	1-126-960-11	ELECT 1uF 20.00% 50V		Q605	8-729-029-23	TRANSISTOR DTA114TSA-TP	
				Q606	8-729-029-23	TRANSISTOR DTA114TSA-TP	
C616	1-162-294-31	CERAMIC 0.001uF 10% 50V		Q607	8-729-029-23	TRANSISTOR DTA114TSA-TP	
C617	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		Q608	8-729-047-58	TRANSISTOR DTC114TLTL2	
C621	1-126-964-11	ELECT 10uF 20.00% 50V		Q609	8-729-047-58	TRANSISTOR DTC114TLTL2	
C622	1-162-303-11	CERAMIC 0.0033uF 30.00% 16V		Q610	8-729-047-58	TRANSISTOR DTC114TLTL2	
C623	1-126-964-11	ELECT 10uF 20.00% 50V				< RESISTOR >	
C624	1-104-664-11	ELECT 47uF 20.00% 16V		R601	1-247-893-11	CARBON 390K 5% 1/4W	
C625	1-126-963-11	ELECT 4.7uF 20.00% 50V		R602	1-247-893-11	CARBON 390K 5% 1/4W	
C626	1-126-964-11	ELECT 10uF 20.00% 50V		R603	1-249-441-11	CARBON 100K 5% 1/4W	
C641	1-162-286-21	CERAMIC 220PF 10.00% 50V		R604	1-249-441-11	CARBON 100K 5% 1/4W	
C642	1-162-286-21	CERAMIC 220PF 10.00% 50V		R605	1-247-807-31	CARBON 100 5% 1/4W	
C643	1-162-286-21	CERAMIC 220PF 10.00% 50V		R608	1-249-435-11	CARBON 33K 5% 1/4W	
C644	1-162-286-21	CERAMIC 220PF 10.00% 50V		R609	1-247-895-91	CARBON 470K 5% 1/4W	
C645	1-162-286-21	CERAMIC 220PF 10.00% 50V		R611	1-249-429-11	CARBON 10K 5% 1/4W	
C646	1-162-286-21	CERAMIC 220PF 10.00% 50V		R612	1-247-807-31	CARBON 100 5% 1/4W	
C647	1-162-286-21	CERAMIC 220PF 10.00% 50V		R613	1-247-807-31	CARBON 100 5% 1/4W	
C648	1-162-286-21	CERAMIC 220PF 10.00% 50V		R614	1-247-807-31	CARBON 100 5% 1/4W	
C649	1-162-286-21	CERAMIC 220PF 10.00% 50V		R615	1-249-429-11	CARBON 10K 5% 1/4W	
C650	1-162-286-21	CERAMIC 220PF 10.00% 50V		R616	1-249-429-11	CARBON 10K 5% 1/4W	
C651	1-162-286-21	CERAMIC 220PF 10.00% 50V		R617	1-249-429-11	CARBON 10K 5% 1/4W	
C652	1-162-286-21	CERAMIC 220PF 10.00% 50V		R618	1-249-429-11	CARBON 10K 5% 1/4W	
C653	1-162-286-21	CERAMIC 220PF 10.00% 50V		R619	1-249-429-11	CARBON 10K 5% 1/4W	
C654	1-162-286-21	CERAMIC 220PF 10.00% 50V		R620	1-249-429-11	CARBON 10K 5% 1/4W	
C655	1-162-286-21	CERAMIC 220PF 10.00% 50V		R621	1-249-429-11	CARBON 10K 5% 1/4W	
C656	1-162-286-21	CERAMIC 220PF 10.00% 50V		R622	1-249-429-11	CARBON 10K 5% 1/4W	
		< CONNECTOR >		R623	1-247-903-00	CARBON 1M 5% 1/4W	
CN601	1-784-735-11	CONNECTOR, FFC 13P		R624	1-247-807-31	CARBON 100 5% 1/4W	
CN602	1-784-782-11	CONNECTOR, FFC 21P		R625	1-247-807-31	CARBON 100 5% 1/4W	
		< DIODE >		R626	1-249-429-11	CARBON 10K 5% 1/4W	
D601	8-719-071-44	DIODE SELS5223C-TP15 (I/Ⓛ)		R627	1-247-807-31	CARBON 100 5% 1/4W	
D602	8-719-058-04	DIODE SEL5223S-TP15 (DAILY)		R628	1-249-429-11	CARBON 10K 5% 1/4W	
D603	8-719-058-04	DIODE SEL5223S-TP15 (REC)		R629	1-247-807-31	CARBON 100 5% 1/4W	
D604	8-719-058-04	DIODE SEL5223S-TP15 (SYNC EQ)		R630	1-249-429-11	CARBON 10K 5% 1/4W	
D605	8-719-058-04	DIODE SEL5223S-TP15 (SYNC BASS)					

PANEL FL

PANEL VR

Ref. No.	Part No.	Description	Remark
R631	1-249-410-11	CARBON 270 5%	1/4W F
R632	1-249-411-11	CARBON 330 5%	1/4W
R633	1-249-413-11	CARBON 470 5%	1/4W F
R634	1-249-414-11	CARBON 560 5%	1/4W F
R642	1-249-415-11	CARBON 680 5%	1/4W F
R644	1-249-418-11	CARBON 1.2K 5%	1/4W F
R645	1-249-420-11	CARBON 1.8K 5%	1/4W F
R646	1-249-417-11	CARBON 1K 5%	1/4W F
R647	1-249-410-11	CARBON 270 5%	1/4W F
R648	1-249-411-11	CARBON 330 5%	1/4W
R649	1-249-413-11	CARBON 470 5%	1/4W F
R650	1-249-414-11	CARBON 560 5%	1/4W F
R652	1-249-437-11	CARBON 47K 5%	1/4W
R653	1-249-417-11	CARBON 1K 5%	1/4W F
R654	1-249-437-11	CARBON 47K 5%	1/4W
R655	1-249-417-11	CARBON 1K 5%	1/4W F
R656	1-249-438-11	CARBON 56K 5%	1/4W
R659	1-249-411-11	CARBON 330 5%	1/4W
R660	1-249-411-11	CARBON 330 5%	1/4W
R661	1-249-407-11	CARBON 150 5%	1/4W F
R662	1-249-407-11	CARBON 150 5%	1/4W F
R665	1-249-441-11	CARBON 100K 5%	1/4W
R666	1-249-441-11	CARBON 100K 5%	1/4W
R667	1-249-441-11	CARBON 100K 5%	1/4W
R680	1-249-411-11	CARBON 330 5%	1/4W
R681	1-249-440-11	CARBON 82K 5%	1/4W
R682	1-249-420-11	CARBON 1.8K 5%	1/4W F
R683	1-249-437-11	CARBON 47K 5%	1/4W
R684	1-249-440-11	CARBON 82K 5%	1/4W
R685	1-249-429-11	CARBON 10K 5%	1/4W
R686	1-249-410-11	CARBON 270 5%	1/4W F
R687	1-249-410-11	CARBON 270 5%	1/4W F
R688	1-249-413-11	CARBON 470 5%	1/4W F
R689	1-249-411-11	CARBON 330 5%	1/4W
R690	1-249-407-11	CARBON 150 5%	1/4W F
R699	1-249-429-11	CARBON 10K 5%	1/4W
< SWITCH >			
S601	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
S602	1-762-875-21	SWITCH, KEYBOARD (DEMO (STAND BY))	
S603	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S604	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)	
S612	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
S614	1-762-875-21	SWITCH, KEYBOARD (SYNC EQ)	
S615	1-762-875-21	SWITCH, KEYBOARD (SYNC BASS)	
S617	1-762-875-21	SWITCH, KEYBOARD (DAILY)	
S618	1-762-875-21	SWITCH, KEYBOARD (REC)	
S619	1-762-875-21	SWITCH, KEYBOARD (SLEEP)	
S620	1-762-875-21	SWITCH, KEYBOARD (CLOCK SET)	
S632	1-762-875-21	SWITCH, KEYBOARD (KARAOKE PON)	
S635	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
< VIBRATOR >			
X601	1-781-312-11	VIBRATOR, CERAMIC 12.5MHz	

Ref. No.	Part No.	Description	Remark
	A-4428-168-A	PANEL VR BOARD, COMPLETE (LX8)	*****
	A-4428-198-A	PANEL VR BOARD, COMPLETE (LX7)	*****
< CAPACITOR >			
C701	1-162-600-11	CERAMIC 0.0047uF 30.00%	16V
C702	1-162-301-11	CERAMIC 0.0015uF 30.00%	16V
C703	1-162-302-11	CERAMIC 0.0022uF 30.00%	16V
C704	1-104-664-11	ELECT 47uF 20.00%	16V
C708	1-104-665-11	ELECT 100uF 20.00%	10V
C709	1-162-294-31	CERAMIC 0.001uF 10%	50V
C710	1-162-306-11	CERAMIC 0.01uF 30.00%	16V
C711	1-162-306-11	CERAMIC 0.01uF 30.00%	16V
< CONNECTOR >			
CN701	1-568-864-11	CONNECTOR, FFC 21P	
< DIODE >			
D606	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)	
D607	8-719-058-04	DIODE SEL5223S-TP15 (ENT/NEXT)	
D611	8-719-058-04	DIODE SEL5223S-TP15 (GROOVE)	
D612	8-719-058-04	DIODE SEL5223S-TP15 (SUPER WOOFER)	
D616	8-719-058-04	DIODE SEL5223S-TP15 (ENTER)	
D618	8-719-058-04	DIODE SEL5223S-TP15 (EFFECT)	
D619	8-719-301-60	DIODE SEL2910A-C-TP2 (MENU 1)	
D620	8-719-301-60	DIODE SEL2910A-C-TP2 (MENU 2)	
D621	8-719-301-60	DIODE SEL2910A-C-TP2 (P.FILE)	
D623	8-719-301-60	DIODE SEL2910A-C-TP2 (FILE 5)	
D624	8-719-301-60	DIODE SEL2910A-C-TP2 (FILE 4)	
D625	8-719-301-60	DIODE SEL2910A-C-TP2 (FILE 3)	
D626	8-719-301-60	DIODE SEL2910A-C-TP2 (FILE 2)	
D627	8-719-301-60	DIODE SEL2910A-C-TP2 (FILE 1)	
< IC >			
IC701	8-759-567-59	IC NJU3716L	
IC702	8-759-459-86	IC NJL64H400A	
< COIL >			
L704	1-410-509-11	INDUCTOR 10uH	
< RESISTOR >			
R724	1-249-422-11	CARBON 2.7K 5%	1/4W F
R725	1-247-843-11	CARBON 3.3K 5%	1/4W
R726	1-249-425-11	CARBON 4.7K 5%	1/4W F
R727	1-249-427-11	CARBON 6.8K 5%	1/4W F
R728	1-249-429-11	CARBON 10K 5%	1/4W
R729	1-249-431-11	CARBON 15K 5%	1/4W
R730	1-249-434-11	CARBON 27K 5%	1/4W
R731	1-249-438-11	CARBON 56K 5%	1/4W
R732	1-247-804-11	CARBON 75 5%	1/4W
R733	1-249-407-11	CARBON 150 5%	1/4W F
R734	1-249-429-11	CARBON 10K 5%	1/4W
R735	1-249-393-11	CARBON 10 5%	1/4W F
R736	1-249-393-11	CARBON 10 5%	1/4W F

PANEL VR

SUB TRANS

TABLE SENSOR

TC-A

Ref. No.	Part No.	Description	Remark
R737	1-249-393-11	CARBON	10 5% 1/4W F
R738	1-247-807-31	CARBON	100 5% 1/4W
R739	1-247-807-31	CARBON	100 5% 1/4W
R740	1-247-807-31	CARBON	100 5% 1/4W
R741	1-249-393-11	CARBON	10 5% 1/4W F
R742	1-249-393-11	CARBON	10 5% 1/4W F
R743	1-249-393-11	CARBON	10 5% 1/4W F
R744	1-249-401-11	CARBON	47 5% 1/4W F
R750	1-249-393-11	CARBON	10 5% 1/4W F
R751	1-249-393-11	CARBON	10 5% 1/4W F
R761	1-249-411-11	CARBON	330 5% 1/4W
R762	1-249-413-11	CARBON	470 5% 1/4W F
R763	1-249-414-11	CARBON	560 5% 1/4W F
R764	1-249-415-11	CARBON	680 5% 1/4W F
R765	1-249-429-11	CARBON	10K 5% 1/4W
R766	1-249-427-11	CARBON	6.8K 5% 1/4W F
R767	1-249-425-11	CARBON	4.7K 5% 1/4W F
R768	1-249-417-11	CARBON	1K 5% 1/4W F
R769	1-249-418-11	CARBON	1.2K 5% 1/4W F
R772	1-249-420-11	CARBON	1.8K 5% 1/4W F
R773	1-249-422-11	CARBON	2.7K 5% 1/4W F
R775	1-249-431-11	CARBON	15K 5% 1/4W
R776	1-247-843-11	CARBON	3.3K 5% 1/4W
R777	1-249-407-11	CARBON	150 5% 1/4W F
R778	1-249-407-11	CARBON	150 5% 1/4W F
R782	1-249-407-11	CARBON	150 5% 1/4W F
R784	1-249-407-11	CARBON	150 5% 1/4W F
R785	1-249-407-11	CARBON	150 5% 1/4W F
R786	1-249-407-11	CARBON	150 5% 1/4W F
R787	1-249-407-11	CARBON	150 5% 1/4W F
R789	1-249-407-11	CARBON	150 5% 1/4W F
R790	1-249-407-11	CARBON	150 5% 1/4W F
R791	1-249-407-11	CARBON	150 5% 1/4W F
R792	1-249-407-11	CARBON	150 5% 1/4W F
R793	1-249-407-11	CARBON	150 5% 1/4W F
R794	1-249-417-11	CARBON	1K 5% 1/4W F
R795	1-249-417-11	CARBON	1K 5% 1/4W F
< VARIABLE RESISTOR >			
RV750	1-225-739-31	RES, VAR CARBON 50K (MIC LEVEL)	
RV751	1-225-739-11	RES, VAR CARBON 50K (GUITAR LEVEL)	
< SWITCH >			
S605	1-762-875-21	SWITCH, KEYBOARD (PTY)(LX7)	
S606	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)	
S607	1-762-875-21	SWITCH, KEYBOARD (ST/MONO)	
S608	1-762-875-21	SWITCH, KEYBOARD (ENT/NEXT)	
S609	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S610	1-762-875-21	SWITCH, KEYBOARD (+)	
S611	1-762-875-21	SWITCH, KEYBOARD (-)	
S613	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)	
S621	1-762-875-21	SWITCH, KEYBOARD (▼)	
S622	1-762-875-21	SWITCH, KEYBOARD (◀)	

Ref. No.	Part No.	Description	Remark
S623	1-762-875-21	SWITCH, KEYBOARD (▲)	
S624	1-762-875-21	SWITCH, KEYBOARD (▶)	
S626	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S627	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER)	
S628	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER MODE)	
S633	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
S634	1-762-875-21	SWITCH, KEYBOARD (GEQ CTRL)	
S636	1-762-875-21	SWITCH, KEYBOARD (EFFECT)	
S637	1-762-875-21	SWITCH, KEYBOARD (FILE MENU)	
S701	1-473-392-11	ENCODER, ROTARY (VOLUME)	

	1-676-268-11	SUB TRANS BOARD (LX7)	

< CAPACITOR >			
△ C901	1-113-925-11	CERAMIC 0.01uF 20.00% 250V (LX7)	
< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P (LX7)	
* CN902	1-564-321-21	PIN, CONNECTOR 2P (LX7)	
< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77 (LX7)	
< RELAY >			
△ RY901	1-755-276-11	RELAY, POWER (LX7)	
< TRANSFORMER >			
△ T901	1-435-240-11	TRANSFORMER, POWER (LX7)	

*	1-659-058-13	TABLE SENSOR BOARD	

< IC >			
IC202	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
< RESISTOR >			
R207	1-249-416-11	CARBON 820 5% 1/4W F	

	1-676-274-11	TC-A BOARD	

< DIODE >			
D631	8-719-058-03	DIODE SEL5423E-TP15 (▷)	
D632	8-719-058-03	DIODE SEL5423E-TP15 (◁)	
< RESISTOR >			
R700	1-249-410-11	CARBON 270 5% 1/4W F	
R701	1-249-411-11	CARBON 330 5% 1/4W	
R702	1-249-413-11	CARBON 470 5% 1/4W F	
R703	1-249-414-11	CARBON 560 5% 1/4W F	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

TC-A

TC-B

TRANS

Ref. No.	Part No.	Description	Remark		
R704	1-249-415-11	CARBON 680 5%	1/4W	F	
R705	1-249-417-11	CARBON 1K 5%	1/4W	F	
R706	1-249-418-11	CARBON 1.2K 5%	1/4W	F	
R707	1-247-804-11	CARBON 75 5%	1/4W		
R708	1-247-804-11	CARBON 75 5%	1/4W		
< SWITCH >					
S641	1-762-875-21	SWITCH, KEYBOARD (▷)			
S642	1-762-875-21	SWITCH, KEYBOARD (◁)			
S643	1-762-875-21	SWITCH, KEYBOARD (■)			
S644	1-762-875-21	SWITCH, KEYBOARD (◀◀)			
S645	1-762-875-21	SWITCH, KEYBOARD (▶▶)			
S646	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)			
S647	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)			

	1-676-275-11	TC-B BOARD			

< DIODE >					
D635	8-719-058-03	DIODE SEL5423E-TP15 (◁)			
D636	8-719-058-03	DIODE SEL5423E-TP15 (▷)			
D637	8-719-057-97	DIODE SEL5923A-TP15 (■)			
D638	8-719-058-04	DIODE SEL5223S-TP15 (● REC)			
< RESISTOR >					
R711	1-249-415-11	CARBON 680 5%	1/4W	F	
R712	1-249-417-11	CARBON 1K 5%	1/4W	F	
R713	1-249-418-11	CARBON 1.2K 5%	1/4W	F	
R714	1-249-414-11	CARBON 560 5%	1/4W	F	
R715	1-249-415-11	CARBON 680 5%	1/4W	F	
R716	1-249-417-11	CARBON 1K 5%	1/4W	F	
R717	1-249-418-11	CARBON 1.2K 5%	1/4W	F	
R718	1-249-420-11	CARBON 1.8K 5%	1/4W	F	
R719	1-249-422-11	CARBON 2.7K 5%	1/4W	F	
R720	1-247-804-11	CARBON 75 5%	1/4W		
R721	1-247-804-11	CARBON 75 5%	1/4W		
R722	1-247-807-31	CARBON 100 5%	1/4W		
R723	1-249-407-11	CARBON 150 5%	1/4W	F	
< SWITCH >					
S651	1-762-875-21	SWITCH, KEYBOARD (▷)			
S652	1-762-875-21	SWITCH, KEYBOARD (◁)			
S653	1-762-875-21	SWITCH, KEYBOARD (■)			
S654	1-762-875-21	SWITCH, KEYBOARD (◀◀)			
S655	1-762-875-21	SWITCH, KEYBOARD (▶▶)			
S656	1-762-875-21	SWITCH, KEYBOARD (■)			
S657	1-762-875-21	SWITCH, KEYBOARD (● REC)			
S658	1-762-875-21	SWITCH, KEYBOARD (H SPEED DUB)			
S659	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			

Ref. No.	Part No.	Description	Remark		
	1-676-267-11	TRANS BOARD			

	1-533-233-21	HOLDER, FUSE			
	7-685-64679	SCREW +BVTP 3X8 TYPE2 N-S			
< CAPACITOR >					
C834	1-130-777-00	MYLAR 0.1uF	10.00%	100V	
C893	1-130-777-00	MYLAR 0.1uF	10.00%	100V	
C961	1-162-306-11	CERAMIC 0.01uF	30.00%	16V	
C963	1-162-306-11	CERAMIC 0.01uF	30.00%	16V	
< CONNECTOR >					
CN905	1-564-321-00	PIN, CONNECTOR 2P (LX8)			
* CN951	1-564-214-11	PIN, CONNECTOR (B3PS-VH)3P			
* CN952	1-564-524-11	PLUG, CONNECTOR 9P (LX7)			
* CN952	1-564-526-11	PLUG, CONNECTOR 11P (LX8)			
< DIODE >					
D832	8-719-510-68	DIODE D5SBA204101			
< FUSE >					
△ F951	1-533-949-31	FUSE (T8AL/250V) (LX8:E,AR,EA,SP,MY)			
△ F961	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG)(T8AL/250V)			
△ F962	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG)(T8AL/250V)			
△ F963	1-532-506-31	FUSE (T6.3AL/250V)			
△ F964	1-532-506-31	FUSE (T6.3AL/250V)			
< RESISTOR >					
△ R951	1-219-121-11	FUSIBLE 0.22 5%	1/4W		(LX8)
△ R951	1-219-122-91	FUSIBLE 0.33 5%	1/4W		(LX7)
△ R952	1-219-121-11	FUSIBLE 0.22 5%	1/4W		(LX8)
△ R952	1-219-122-91	FUSIBLE 0.33 5%	1/4W		(LX7)
△ R953	1-219-119-81	FUSIBLE 0.1 5%	1/4W		
< TRANSFORMER >					
△ T951	1-435-245-11	TRANSFORMER, POWER (LX7)			
△ T951	1-435-246-11	TRANSFORMER, POWER (LX8)			
< SWITCH >					
△ VS901	1-771-291-11	SWITCH,POWER (VOLTAGE SELECTOR)			(LX8:E,AR,EA,SP,MY)

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

1	1-769-977-11	WIRE (FLAT TYPE)(13 CORE)(LX8)	
1	1-773-009-11	WIRE (FLAT TYPE)(15 CORE)(LX7)	
2	1-693-484-11	TUNER (FM/AM) (LX8:E)	
2	1-693-488-11	TUNER (FM/AM) (LX8:AR,MX,EA,SP,MY,AUS)	
2	1-693-490-11	TUNER (FM/AM) (LX7)	
54	1-773-150-11	WIRE (FLAT TYPE)(21 CORE)	
64	1-751-688-11	WIRE (FLAT TYPE)(13 CORE)	
153	1-790-287-11	WIRE (FLAT TYPE)(19 CORE)	
156	1-773-056-11	WIRE (FLAT TYPE)(17 CORE)	
158	1-773-032-11	WIRE (FLAT TYPE)(15 CORE)	
△ 162	1-569-007-11	ADAPTOR, CONVERSION 2P (LX8:E)	
△ 162	1-569-008-21	ADAPTOR, CONVERSION 2P (LX8:EA,SP,MY)	
162	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (LX7:UK)	
△ 163	1-696-847-11	CORD, POWER (LX8:AUS)	
△ 163	1-777-071-51	CORD, POWER (LX7/LX8:EA,SP,MY)	
△ 163	1-783-941-11	CORD, POWER (LX8:AR)	
△ 163	1-791-901-11	CORD, POWER (LX8:E,MX)	
507	1-452-925-21	MAGNET ASSY	
△ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
602	1-769-069-11	WIRE (FLAT TYPE)(16 CORE)	
FL601	1-517-940-11	INDICATOR TUBE, FLUORESCENT	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
M901	1-763-072-11	FAN, D.C.	
△ T951	1-435-245-11	TRANSFORMER, POWER (LX7)	
△ T951	1-435-246-11	TRANSFORMER, POWER (LX8)	

HARDWARE LIST

#1	7-685-871-01	SCREW +BVTT 3X6 (S)
#2	7-685-872-09	SCREW +BVTT 3X8 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE N-S
#4	7-685-881-09	SCREW +BVTT 4X8 (S)
#5	7-685-851-04	SCREW +BVTT 2X4 (S)
#8	7-685-650-79	SCREW +BVTP 3X16 TYPE IT-3
#10	7-628-254-50	SCREW +PS 2.6X16
#11	7-628-254-15	SCREW +PS 2.6X6

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	

	1-475-572-41	COMMANDER, STANDARD (RM-SR5B)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-659-41	ANTENNA (FM)(LX8)	
	1-501-804-11	ANTENNA (FM)(LX7)	
	4-227-074-11	MANUAL, INSTRUCTION(ENGLISH)	
	4-227-074-21	MANUAL, INSTRUCTION(FRENCH)(LX8:EA)	
	4-227-074-31	MANUAL, INSTRUCTION(SPANISH)(LX8:AR,MX)	
	4-227-074-41	MANUAL, INSTRUCTION (FRENCH,SPANISH)(LX7:AEP/LX8:E,SP,MY)	
	4-227-074-51	MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH)(LX7:AEP)	
	4-227-074-61	MANUAL, INSTRUCTION (ITALIAN,PORTUGUESE)(LX7:AEP)	
	4-227-074-71	MANUAL, INSTRUCTION (POLISH,RUSSIAN)(LX7:CIS)	
	4-227-074-81	MANUAL, INSTRUCTION(ARABIC)(LX8:EA)	
	4-227-074-91	MANUAL, INSTRUCTION(CHINESE)(LX8:SP,MY)	
	4-227-075-11	MANUAL, INSTRUCTION(CZECH)(LX7:CIS)	
	4-227-075-21	MANUAL, INSTRUCTION(HUNGALIAN)(LX7:CIS)	
	4-227-075-31	MANUAL, INSTRUCTION(GREEK)(LX7:CIS)	
	4-227-075-41	MANUAL, INSTRUCTION(TURKISH)(LX7:CIS)	
	4-998-173-01	COVER, BATTERY(FOR RM-SR5B)	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

SS-LV80/LV100AV/LX7/LX8/LX8G/ LX9AVG/LX10AV/LX10AVG

SERVICE MANUAL

Ver 1.0 2000.2



Photo: SS-LV80

- This set is the speaker system in LBT-LV80/LV100AV/LX7/LX8/LX9AV/LX10AV/LX70.

AEP Model

UK Model

SS-LX7/LX9AVG

E Model

*SS-LV80/LV100AV/LX8/LX8G/
LX10AV/LX10AVG*

Australian Model

SS-LX8G/LX100AVG

SPECIFICATIONS

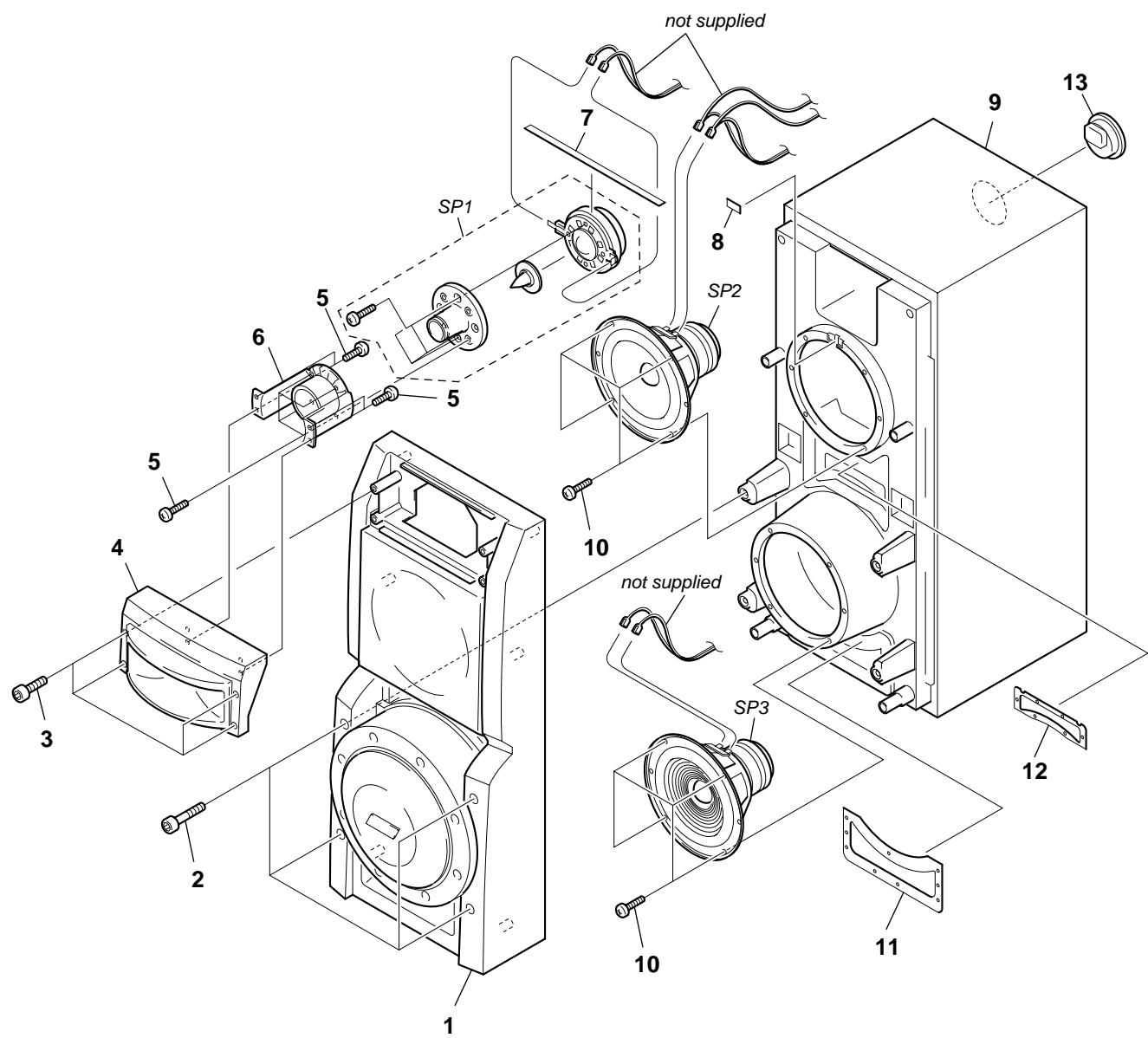
Speaker system	3-way BUILT IN SW, magnetically shielded type
Speaker units	
Super Woofer/Woofer:	20 cm dia., cone type
Tweeter:	2.5 cm dia., horn type
Rated impedance	4 Ω (LV80, LX8, LX8G) 6 Ω (LV100AV, LX7, LX9AVG, LV10AV, LX10AVG)
Dimensions (w/h/d)	Approx. 290 \times 615 \times 435 mm
Mass	Approx. 16 kg net per speaker

Design and specifications are subject to change without notice

SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	X-4952-678-1	PANEL ASSY, FRONT (LV80,LV100AV,LX7,LX8,LX10AV)		12	4-227-039-01	PACKING, TOP	
1	X-4952-965-1	PANEL ASSY, FRONT (LX8G,LX9AVG,LX10AVG)		13	1-537-332-11	TERMINAL BOARD	
2	4-227-041-01	SCREW(L40), SOCKET TAPPING		SP1	1-529-607-11	SPEAKER (2.5cm)	
3	4-999-101-01	SCREW, HEXAGON HOLE TAPPING		SP2	1-529-608-11	SPEAKER (18cm)	
4	4-227-032-01	HORN,TW.		SP3	1-529-609-11	SPEAKER (18cm)(LV80,LX8,LX8G)	
5	4-874-614-31	SCREW(4) (3.5X12), TAPPING		SP3	1-529-654-11	SPEAKER (18cm) (LV100AV,LX7,LX9AVG,LX10AV,LX10AVG)	
6	4-227-036-01	BRACKET		ACCESSORIES & PACKING MATERIALS			
7	4-226-967-01	PACKING (TW)		*****			
8	4-942-029-01	PACKING		1-775-512-21	CORD, SPEAKER CONNECTION		
9	A-4412-012-A	CABINET ASSY, SPEAKER		4-210-254-01	CUSHION (FOOT)		
10	7-685-148-19	SCREW +BVP 4X10 TYPE2 N-S		4-228-574-11	MANUAL, INSTRUCTION(ENGLISH)		
11	4-227-040-01	PACKING, BOTTOM					